



पंडित रविशंकर शुक्ल विश्वविद्यालय, रायपुर छत्तीसगढ़ भारत  
Pt. Ravishankar Shukla University, Raipur Chhattisgarh, India  
Estd-1964 – recognized by UGC U/s 2(f) and 12 (B)  
NAAC “A” Grade

## Syllabus 2018-2019

S. No.	Department	Pg. No.
1	School of Studies in Ancient Indian History Culture and Tourism and Hotel Management	1-44
2	School of Studies in Anthropology	45-135
3	School of Studies in Biotechnology	136-190
4	School of Studies in Chemistry	191-245
5	Swami Vivekanand Memorial School of Studies in Comparative Religion, Philosophy and Yoga	246-263
6	School of Studies in Computer Science & IT	264-355
7	School of Studies in Economics	356-400
8	School of Studies in Electronics and Photonics	401-491
9	School of Studies in Environmental Science	492-523
10	School of Studies in Geography	524-561
11	School of Studies in Geology and WRM	562-611
12	School of Studies in History	612-701
13	School of Studies in Law	702-874
14	School of Studies in Library & Information Science	875-900
15	School of Studies in Life Science	901-988
16	School of Studies in Literature and Languages	989-1205
17	Institute of Management	1206-1233
18	School of Studies in Mathematics	1234-1291
19	University Institute of Pharmacy	1292-1405
20	School of Studies in Physical Education	1406-1479
21	School of Studies in Physics and Astrophysics	1480-1527
22	School of Studies in Psychology	1528-1652
23	School of Regional Studies and Research	1653-1723
24	School of Studies in Sociology & Social Work	1724-1815
25	School of Studies in Statistics	1816-1838
26	Institute of Teacher Education	1839-1972
27	Centre for Women’s Studies	1973-1989
28	Renewable Energy Technology & Management	1990-2003
29	Centre for Basic Sciences	2004-2209

**M.A./M. Sc. GEOGRAPHY**  
**SEMESTER I (2018-19)**

M. A. /M. Sc. Geography Semester I shall consist the following papers:

S. No.	Paper	Title	M. M.		
			Written	Inte. Asse.	Total
1.	I	Geomorphology	80	20	100
2.	II	Climatology	80	20	100
3.	III	Geographical Thought	80	20	100
4.	IV	Geography of India	80	20	100
5.	V	Practical-I : Advanced Cartography	---	---	100

1. The M. A. /M. Sc. Semester I examination in Geography shall consist of 500 marks.

There shall be four theory papers each of 100 marks and one practical of 100 marks as follows:

Paper I	Geomorphology
Paper II	Climatology
Paper III	Geographical Thought
Paper IV	Geography of India
Paper V	Practical-I: Advanced Cartography

2. The theory papers shall be of three hours duration.
3. Candidates will be required to pass separately in theory and practical examinations.
4. (a) In the practical examination the following shall be the allotment of time and marks.

(i) Practical record	20%
(ii) Lab work (up to three hours)	70%
(iii) Viva on i. ii.	10%

(b) The external and internal examiners shall jointly submit marks.

(c) All the candidates shall present at the time of the practical examination their practical record regularly signed by the teachers concerned.



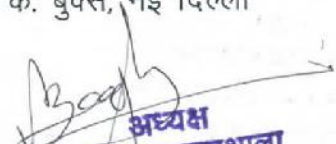
**अध्यक्ष**  
**भूगोल अध्ययनशाला**  
**डॉ. रविशंकर शुक्ल विश्वविद्यालय**  
**रायपुर (छ.ग.)**

GEOMORPHOLOGY

- UNIT – I Nature and scope of Geomorphology; Fundamental concepts-Geological Structures and landforms, uniformitarianism, multicyclic and polygenetic evolution of landscapes, concept of threshold, Environmental change – climatic change and geochronological methods-documentary evidence, artifacts. Applied Geomorphology urban Geomorphology environmental geomorphology Geomorphic Hazards.
- UNIT – II Earth movements – epeirogenic, organic and tectonic earth movements. Forces of crustal instability, isostasy, plate tectonics, Interior of the earth and earth quake, Volcanicity, organic structures with reference to the evolution of the Himalaya.
- UNIT – III Exogenic Processes : Concept of gradation, Agents and processes of gradation, causes, types and classification of weathering, mass movement erosion, and depositional processes and resultant landforms and soil formation. Slope evolution, down warping, parallel retreat and slope replacement models.
- UNIT – IV Geomorphic processes dynamics of fluvial, glacial, periglacial Aeolian (Arid & Semi Arid) marine, and karst processes and resulting landforms' Erosion surfaces.

SUGGESTED READINGS:

1. Ahnmed, E.: Coastal Geomorphology of India.
2. Chorley, R. J.: Spatial Analysis in Geomorphology, Methuen, London, 1972.
3. Cooke R.IJ. and Doornkamp, J.C. : Geomorphology in Environmental Management. An Introduction, Clarendon press, Oxford, 1974.
4. Dayal, P. : A Text book of Geomorphology, R.K. Books, New Delhi.
5. Dury, G.H.: The Face of the Earth, Penguin Harmondsworth 1959.
6. Fairbridge, R.W. Encyclopedia of Geomorphology, Reinholdts, New York, 1968.
7. Goudie, A.: The Nature of the Environment Oxford & Blackwell, London, 1993.
8. Gautam, Alka : Geomorphology, Sharda Pustak Bhawan, Allahabad.
9. Garner, H.F. : The Origin of landscape- A Synthesis of Geomorphology, Oxford University Press. London, 1974.
10. Holms, A.: Principles of Physical Geology, Thomas Nelson, London.
11. Jha, V.C. : Geomorphology, Vasundhara Publication, Gorakhpur.
12. Mitchell, C.W.: 'I'erra.ii'i Evaluation. Longman, London, 1973.
13. Oilier, C.D. : Weathering, Longman, London, 1979.
14. Pitty, A.F.: Introduction to Geomorphology, Methuen, London, 1971.
15. Stoddart, D.R. (ed.) : Process and Form in Geomorphology, Roulledge, New York, 1996.
16. Skinner, B.J. & Porter, S.C.: The Dynamic Earth John Wiley. New York, 1995.
17. Sparks, B.W. Geomorphology, Longman, London, 1960.
18. Sharma, H.S. (ed.): Perspective in Geomorphology, Concept, New Delhi, 1980.
19. Singh, S : Geomorphology, Prayag Publication, Allahabad, 1998.
20. Steers, J.A. : The Unstable Earth Methuen, London.
21. Thornbury, W.I.). Principles of Geomorphology, John Wiloy, New York, 1960.
22. Strahler, A.N.: Physical Geography, Willey, New York.
23. कौशिक, एस.डी. : भू-आकृति विज्ञान के सरल सिद्धांत, आर.के. बुक्स, नई दिल्ली
24. नेगी, बी.एस. : भू-आकृति विज्ञान, आर.के. बुक्स, नई दिल्ली
25. दयाल, परमेश्वर : भू-आकृति विज्ञान, आर. के. बुक्स, नई दिल्ली

  
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26. यादव, रामसुरेश : भू-आकृति विज्ञान, ग्रन्थम, रामबाग, कानपुर, 1976
27. सिंह, सविन्द्र के. भू-आकृति विज्ञान, शारदा पुस्तक भवन, इलाहाबाद
28. प्रसाद, गायत्री : भू-आकृति विज्ञान, शारदा पुस्तक भवन, इलाहाबाद
29. गौतम, अलका : भू-आकृति विज्ञान, रस्तोगी पब्लिकेशन, मेरठ
30. शर्मा, एच.एस. एवं प्रमीला कुमार : भू-आकृति विज्ञान, पंचशील प्रकाशन, जयपुर, 2011

## PAPER - II (2018-19)

### CLIMATOLOGY

- UNIT – I Nature and scope of climatology and its relationship with meteorology; composition of atmosphere; Insolation, heat balance of the earth, stability and instability, green house effect, vertical and horizontal distribution of temperature.
- UNIT – II Jet stream; General circulation in the atmosphere; Acid rain; concept of air masses and Front. EL Nino and La Nina. Monsoon winds and cyclones.
- UNIT – III The application of general principles of elementary physical and synoptic meteorology to the study and classification of climate. Climatic classification of Koppen and Thornthwaite. Major climate of the world-tropical, temperate, desert and mountain climate.
- UNIT – IV Climatic changes during geological and historical times, evidences, possible causes, global warming, Applied climatology.

#### SUGGESTED READINGS:

1. Barry, R.G. and Chorley P..1.; Atmosphere, Weather and Climate, Roulledge, London and New York, 1998.
2. Critchfield, J.H. : General Climatology, Prentico Hall, India, New Delhi, 1993.
3. Das, P.K. : Monsoons National Book Trust, New Delhi, 1987.
4. Fein, J.S. and Slepens, P.N. : Monsons. Wiley Interscience, 1987.
5. India Met. Deptt : Climatologically Tables of Observatories in India, Govt. of India 1968.
6. Lal, D.S. : Climatology, Chaitanaya Publications, Allahabad, 1986.
7. Lydolph, P.H. : The Climate of the Earth, Rowiman, 1985.
8. Menon, P.A. : Our Weather, N.B.T., New Delhi, 1989.
9. Oliver, C. : Climatology : An Atmospheric Science, R.K. Books, New Delhi.
10. Pelerson, S. : Introduction to Meteorology, Me G-r-aw Hill Book, London, 1969.
11. Robinson, P.J. and Henderson S. : Contemporary Climatology, Henlow, 1999.
12. Sing, Savindra : Climatology, R.K. Books, New Delhi.
13. Thompson, R.D. and Perry, A (ed.) : Applied Climatology, Principles and Practice. Raoutledge, London. 1997.
14. तिवारी अनिल कुमार : जलवायु विज्ञान, राजस्थान हिन्दी ग्रंथ अकादमी
15. सिंह, सविन्द्र : जलवायु विज्ञान, प्रयाग पुस्तक भवन, इलाहाबाद

16. नेगी, बी.एस. : जलवायु तथा समुद्र विज्ञान.
17. लाल, डी.एस. : जलवायु विज्ञान
18. गौतम, डॉ. अल्का : जलवायु एवं समुद्र विज्ञान
19. शर्मा, बी.एल. एवं तिवाड़ी, अनिल कुमार : जलवायु विज्ञान के मूल तत्व, राजस्थान हिन्दी ग्रन्थ अकादमी, जयपुर
20. सिंह, डॉ. रामाश्रय एवं उपाध्याय, डॉ. डी.पी. : जलवायु विज्ञान और समुद्र विज्ञान, वसुन्धरा प्रकाशन, गोरखपुर
21. लाल, डी.एस. : जलवायु विज्ञान, आर.के. बुक्स, नई दिल्ली
22. सिंह, सविन्द्र : जलवायु विज्ञान, आर.के. बुक्स, नई दिल्ली


### PAPER – III (2018-19)

#### GEOGRAPHICAL THOUGHT

- UNIT – I Definition, scope and functions of Geography ; The Field of geography, its place in the classification of science, Geography as a social science, and natural science. Geography as science of relationship, as science of areal differentiation, as spatial science. Spatial Organization, Geography and environmentalism : forms of man-nature relationship and current view; Dualism in geography; Regional Concept.
- UNIT – II The growth of Geographical knowledge from earliest times up to the 15th century. Contributions of Greek and Roman thinkers. Arab Geographers and their contributions. Geographical information in Ancient Indian literature. The Dark age in Geography. The Great Age of Maritime Discovery and Exploration.
- UNIT – III Contributions of various schools of thought in modern Geography:
- |                                 |                                   |
|---------------------------------|-----------------------------------|
| (i) German School               | (ii) French School                |
| (iii) British School            | (iv) American and Russian Schools |
| (v) Status or Indian Geography. |                                   |
- UNIT – IV Scientific explanations: routes to scientific explanation (inductive/deductive); Type of explanation: cognitive description, cause and effect, temporal, functional/ecological and systems; Laws, theories and models in Geography; Quantitative revolution and philosophy of positivism. Behaviourism, relevance movement and radical geography Changing paradigms.

#### SUGGESTED READINGS:

1. Abler, Ronald; Adams, John S. Gold, Peler : Spatial Organization : The Geographer's view of the world. Prentice Hall, N.J. 1971.
2. Adhikari, S. : Fundamental of Geographical Thought, R.K. Books, New Delhi.
3. Ali S.M. : The Geography of Puranas, Peoples Publishing House, Delhi, .1968.

  
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 (स. ग.)

4. Amedeo, Douglas : An Introduction to Scientific Reasonign in Geography, John Wiley, U.S.A. 1971.
5. Dikshit, R.D. (ed.): The Art & Science of Geography Rand Me Nally & Co., 1959.
6. Hartshorne, R.: Perspectives on Nature of Geography Rand Me Nally & Co., 1959.
7. Hussain, M. : Models in Geography, R.K. Books, New Delhi.
8. Husain, M. : Evolution of Geographic Thought, Rawat Pub., Jaipur, 1984.
9. Johnston, R.J.: Philosophy and Human Geography, Edward Arnold, London, 1983.
10. Johnston, R.J.: The Future of Geography, Methuen, London, 1988.
11. Minshull, R.: The Changing Nature of Geography, Hutchinson University Library, London, 1970.
12. Ali, S. M.- Arab Geography.
13. Taylor, G.: Geography in the 20th Century.
14. Dikshit, R.D.: Geographical Thought : A Contextual History of Ideas, Prentice Hall of India, New Delhi.
15. Harvey D. : Explanation in Geography.
16. सिंह उजागर : भौगोलिक चिन्तन का विकास
17. त्रिपाठी एवं बिरले : भौगोलिक चिंतन का विकास एवं विधितंत्र
18. कौशिक , एस.डी. : भौगोलिक विचारधाराएं एवं विधितंत्र, आर.के. बुक्स, नई दिल्ली, 2010
19. सिंह , जगदीश : भौगोलिक चिंतन का क्रम विकास, आर.के.बुक्स, नई दिल्ली, 2010
20. हुसैन, माजिद : भौगोलिक चिंतन का इतिहास, रावत पब्लिकेशन, नई दिल्ली, 2004
21. सिंह, देवेन्द्र प्रसाद : भौगोलिक चिन्तन की समीक्षा, शारदा पुस्तक भवन, इलाहाबाद
22. बंसल, सुरेश चन्द्र : भौगोलिक चिन्तन के मूल तत्व, आर.के. बुक्स, नई दिल्ली
23. श्रीवास्तव, वी.के. : भौगोलिक चिन्तन के आधार, आर.के. बुक्स, नई दिल्ली
24. दीक्षित, रमेश दत्त : भौगोलिक चिन्तन का विकास : एक ऐतिहासिक समीक्षा, आर.के. बुक्स, नई दिल्ली
25. जाट, बी.सी. : भौगोलिक विचारधाराएँ तथा विधितंत्र, मलिक एण्ड कंपनी, जयपुर एवं दिल्ली, 2013

#### PAPER – IV (2018-19)

#### GEOGRAPHY OF INDIA

- UNIT – I Physical and Biological elements in the Geography of India: Geological structure, relief, climate Drainage, vegetation and soils.
- UNIT – II Agriculture: Major characteristics and problems, Impact of infrastructural and institutional factors on agriculture. Important crops-wheat, rice, cotton, sugarcane, oil-seeds, tea and coffee, Agricultural regions. Green revolution, Agro-climatic regions.
- UNIT – III Sources of power: Coal; Petroleum, Natural gas. Hydroelectricity and Atomic energy. Mineral resources with special reference to iron ore, manganese and bauxite. Industrial development with special reference to iron and steel, cement, cotton, jute, sugar and paper industries; Industrial regions.
- UNIT – IV Regional division of India: Purpose and Methodology. Major schemes of regions of India: O.H.K. Spate and R.L. Singh. Physical and cultural geography of Chhattisgarh State.

## SUGGESTED READINGS:

1. Centre for Science & Environment (1988) State of India's Environment, New Delhi.
2. Desphande C.D. India. : a Regional Interpretation ICSSR & Northern Book Centre 1992.
3. Dreza, Jean & AMartya. Sen (ed.) India Economic Development and Social opportunity Oxford University Person, New Delhi. 1996.
4. Gautam, Alka : Advanced Geography of India, Sharda Pustak Bhawan Allahabad.
5. Khullar, D.R. : India : A Comprehensive Geography, R.K. Books, New Delhi.
6. Kundu A. Raza Moonis : Indian Economy : the Regional Dimension Speclaum Publishers, New Delhi, 1992.
7. Robinson, Francs : The Cambridge Encyclopedia of India, Pakistan, Bangladesh, Sri Lanka, Nepal, Bhutan & Maldives Cambridge University Press, London, 1989.
8. Singh R.L. (ed.) : India - A Regional Geography National Geographical Society, India Varanasi, 1971.
9. Spale OHK & ATA Learnont-India & Pakistan Methuen, London. 1967.
10. Tirtha R. & Gopal Krishna, Emerging India Reprinted by Rawat Publications, Jaipur 1996.
11. Sharma T.C. and O. Coutinho : Economic and Commercial Geography of India.
12. अग्रवाल पी.सी. भारत का भौतिक भूगोल, एशिया प्रकाशन कं., रायपुर 2003
13. बंसल सुरेशचन्द्र, भारत का भूगोल, मिनाक्षी प्रकाशन, मेरठ.
14. वर्मा रामविलास, भारत : एक भौगोलिक विवेचन, भवदीय प्रकाशन श्रृंगारघाट-अयोध्या, फैजाबाद, पिन -224123, 2007.

## PAPER – V (2018-19)

### PRACTICAL I - ADVANCED CARTOGRAPHY

**Graphs and Diagrams:** Triangular graph. Logarithmic and semi logarithmic graphs, scatter graphs; climatograph. Proportional circles, spheres and cubes.

**Thematic Maps:** Choropleth maps, isolines, Flow maps, isochrones and class intervals. Morphometric Analysis: Profiles, Slope Analysis; Altimetric, and Clinographic curves; Block Diagrams.

### SUGGESTED READING:

1. Monk house F.J. & H.R. Wilkinson: Maps and Diagrams, Methuen, London.
2. मॉक हाउस तथा विल्किन्सन (अनु.प्रो.प्रेमचन्द अग्रवाल) : मानचित्र तथा आरेख, म.प्र. हिंदी ग्रंथ अकादमी.
3. हीरालाल : प्रायोगिक भूगोल, किताब घर, कानपुर
4. चौहान, पी.आर. एवं वी.के. श्रीवास्तव : प्रयोगात्मक भूगोल, वसुन्धरा प्रकाशन, गोरखपुर
5. सिन्हा, एम.पी. : कार्टोग्राफी, शारदा पुस्तक भवन, इलाहाबाद
6. चौहान, पी.आर. : प्रयोगात्मक भूगोल, वसुन्धरा प्रकाशन, गोरखपुर, 2009



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## M.A./M. Sc. GEOGRAPHY (2018-19)

### SEMESTER – II

M. A. /M. Sc. Geography Semester II shall consist the following papers:

S. No.	Paper	Title	M. M.		
			Written	Inte. Asse.	Total
1.	VI	Economic and Natural Resource Management	80	20	100
2.	VII	Oceanography	80	20	100
3.	VIII	Regional Development and Planning	80	20	100
4.	IX	Social Geography	80	20	100
5.	X	Practical-II : Map Projections, Map Interpretation and Surveying	---	---	100

1. The M. A./M. Sc. Semester II examination in Geography shall consist of 500 marks.


There shall be four theory papers each of 100 marks and one practical of 100 marks as follows:

Paper VI	Economic and Natural Resource Management.
Paper VII	Oceanography
Paper VIII	Regional Development and Planning
Paper IX	Social Geography
Paper X	Practical-II : Map Projections, Interpretation and Surveying.

- The theory papers shall be of three hours duration.
- Candidates will be required to pass separately in theory and practical examinations.
- (a) In the practical examination the following shall be the allotment of time and marks.

(i) Practical record	20%
(ii) Lab work (up to three hours)	40%
(iii) Field work (up to three hours)	30%
(iv) Viva on i, ii & iii above	10%

- The external and internal examiners shall jointly submit marks.
- Candidates shall be examined in survey individually. They will however be allowed to take the help of a labourer each at their own expense.
- All the candidates shall present at the time of the practical examination their Practical record regularly signed by the teachers concerned.

  
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रायपुर (छ.ग.)



**ECONOMIC AND NATURAL RESOURCE MANAGEMENT**

- UNIT – I Nature and scope of economic Geography; fundamental concepts in economic geography; classification of economies, sectors of economy (primary, secondary, tertiary). Meaning, nature and classification of resources, Resource appraisal : human want and social objective, technological status and resources. resource adequacy and scarcity, limits to growth.
- UNIT – II World pattern of major natural resources: land and soils, biotic resources, water resources mineral and energy resources, oceanic resources.
- UNIT – III Classification of Industries, Theories of industrial location; case studies of selected industries; Iron and Steel; Aluminum, Chemical, Textile. Means of transport, International trade, trade blocks, globalization and Indian economy.
- UNIT – IV Conservation and management of resources; evolution of the concept, principles, philosophy and approaches to conservation, resource conservation and management methods. Policy making and resource management; sustainable development of resources.

**SUGGESTED READING:**

- Ahemd, Jaleel - Natural Resources in Low Income Countries.
- Bennet, II.II. - Elements of Soil Conservation.
- Ciriacy, Wantrup, S.V. & Persons (eds.) - Natural resources: Quality & Quantity
- Betall, R.C. & R.O. Buehanan - Industrial Activity and Economic Geography.
- Edvard and Rosers - Agricultural Resources.
- Freeman, T.W. - Geography and Planning.
- Fryer, D.M. - World Economic Development.
- Isard, Walter - Method of Regional Analysis.
- Mehta, M.M. - Human Resource Development Planning.
- Owen, O.S. - Natural Resource Conservation.
- Peach, W.N. & James, A. - Zimmerman's World Resources Contenting and Conservation.
- Parkin's, E.A. & J.R. Whitakr - Our Natural Resource and their conservation.
- Renner, G.T. - Conservation of National Recourses.
- Stamp, L.D. - Land of Britain Its use and Misue.
- Smith, G.H. (ed.) - Conservation. of Natural Recourses.
- Symoos, L. - Agriculture Geography.
- Thomas W.L. (et.al. reds.) - Man's Role in Changing the face of the Earth.
- Wales, H. & H.O. Lathrop - The Conservation of Natural Recourses.
- Wheeler, T.O. et al - Economic Geography, John Wiler New York 1995.
- गौतम, अल्का : आर्थिक भूगोल के मूल तत्व, शारदा पुस्तक भवन, इलाहाबाद
- मौर्य, एस.डी. : संसाधन एवं पर्यावरण, प्रयाग पुस्तक भवन, इलाहाबाद, 2006
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## PAPER – VII (2018-19)

### OCEANOGRAPHY

- UNIT – I Nature and scope of Oceanography; Distribution of land and water; Major features of ocean basins; Marine sediments. Physical and chemical properties of sea water.
- UNIT – II Interlink between atmospheric circulation and circulation pattern in the oceans, surface currents, thermohaline, waves and tides.
- UNIT – III Marine biological environment: Bio geochemical cycle in the ocean. biozones, types of organisms; plankton, nekton and benthos, food and mineral resources of the sea. Major marine environments; coastal : estuary, deltas, barrier island, rocky coasts : Open : reefs, continental shelf, continental slope and deep : Pelagic environment and floor of the ocean basins.
- UNIT – IV Impact of Humans on the marine environment. Law of the sea; exclusive economic zone; marine deposits and formation of coral-reefs.

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PAPER – VIII (2018-19)

REGIONAL DEVELOPMENT AND PLANNING

- UNIT – I Regional Planning: Definition, Scope, evolution and Objectives. Region and Regionalism, Planning Regions: Concept and Delineation. Type of Regions. Central Place Theory, Concept of core and periphery Friedmann's Model of Spatial Organisation and Economic Growth.
- UNIT – II Regional Development Theories: Development Theories of Myrdal and Hirschman, Economic and Export Base model, Frank's Theory of Under development.
- UNIT – III Approaches and Strategies of Regional Development: Growth Pole Theory Agropolitan Development, Community Development, River Basin Planning, Metropolitan Planning (with reference to India)
- UNIT – IV Regional Planning in India. Regional Imbalances and Inequalities, Indicators of Regional Development; Regional Policies in Five Year Plans, Centre State Relations and Multilevel Planning, Planning for special problem Regions: Hill area, Tribal areas, Drought prone areas, Command areas and River basins. Regional development and planning in India.

SUGGESTED READING:

1. Daysch, C.H.J. & others: Studies in Regional Planning.
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5. Keeble, L. : Principle and Practice of Town and Country Planning.
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26. Raza, Meomis (ed) Regional Development, Heritage Publishers, Delhi, 1988.
27. Mishra R.P. et al : Multilevel Planning, Heritage Publishers Delhi, 1980
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## PAPER – IX (2018-19)

### SOCIAL GEOGRAPHY

- UNIT – I Definition, meaning and scope of Social geography and it's Nature and relationship with other Social sciences. Development of Social Geography, Approaches to the study of Social Geography.
- UNIT – II Concept of Society – Social Environment, Geographic bases of Social Formation. Social Geography of India - Social Stratification, Caste and Class. Social organization and groups, Social transformation and change in India, Religion and linguistic group of India. Evolution of Socio-Cultural Regions of India.
- UNIT – III Social well- being– meaning and indicators of Social well- being. Quality of life, Pattern and bases of rural and urban society. Deprivation and discrimination issues relating to women and under privileged groups. Cultural Realms and Cultural Region of the World.
- UNIT – IV Social development planning – meaning and importance. Public policy and Social planning in India : Review of Five year Plans strategies to improve Social well being.

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- 2 De Blij. H.D. Human Geography. John Wiley and son, New York.
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10. Planning Commission, Government of India: Report on Development of Tribal areas, 1981.
11. Rao, M.S.A.. Urban Sociology in India, Orient Longman, 1970.
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13. Sen, Amartya & Dreze Jean. Indian Development : Selected Regional Perspectives. Oxford University Press, 1996
14. Sharma, K.L. : Indian Social Structure and Change, Rawat Publication, Jaipur, 2011
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### PAPER – X (2018-19)

### PRACTICAL II- MAP PROJECTIONS, TOPOSHEET] INTERPRETATION AND SURVEYING

Map Projections: Mathematical construction of world projections.


Interpretation of Maps: Geological Maps.

Principles and methods of topographical surveying involving the use of Theodolite and Dumpy level. Solution of problems in Surveying.

Topographical Information – International series, South east Asia Series, Indexing, Classification & Interpretation of topographical sheets.

#### SUGGESTED READINGS:

1. Davis, R. C. & E. S. Forte : Surveying : Theory and Practical.
2. Kanetkar, T.R. & S.V. Kulkarni: Surveying and leveling part I & II A.V.G. Prakashan, Poona.
3. Monkhouse F.J. & H.R. Wilkinson: Maps and Diagrams, Methuen, London.
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**M.A./M. Sc. GEOGRAPHY  
SEMESTER III (2018-19)**

M.A./M. Sc. Geography Semester III shall consist the following papers:


S. No.	Paper	Title	M. M.		
			Written	Inte. Asse.	Total
1.	XI	Population Geography	80	20	100
2.	XII	Settlement Geography	80	20	100
3.	XIII (A)	Remote Sensing Techniques	80	20	100
	<b>OR</b>	<b>OR</b>			
4.	XIII (B)	Biogeography and Ecosystem	80	20	100
5.	XIV	Research Methodology	80	20	100
	XV	Practical-III : Remote Sensing and Quantitative Techniques	---	---	100

- The M.A. /M. Sc. Semester III examination in Geography shall consist of 500 marks. There shall be four theory papers each of 100 marks and one practical of 100 marks as follows:
 

Paper XI	:	Population Geography
Paper XII	:	Settlement Geography
Paper XIII (A)	:	Remote Sensing Techniques
<b>OR</b>		
Paper XIII (B)	:	Biogeography and Ecosystem
Paper XIV	:	Research Methodology
Paper XV	:	Practical – III: Remote Sensing and Quantitative Techniques
- The theory papers shall be of three hours duration.
- Candidates will be required to pass separately in theory and practical examinations.
- (a) In the practical examination the following shall be the allotment of time and marks.
 

(i) Practical record	:	20%
(ii) Lab work (up to Four hours)	:	70%
(iii) Viva on i. & ii. Above	:	10%
- (b) The external and internal examiners shall jointly submit marks.
- (c) All the candidates shall present at the time of the practical examination their practical record regularly signed by the teachers concerned.

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## SEMESTER – III (2018-19)

### PAPER - XI

#### POPULATION GEOGRAPHY

- UNIT – I Definition and scope of Population Geography. Relation of Population Geography with other subjects of social sciences. Historical development of Population Geography in western countries and in India. Sources of population data, Census and its history.
- UNIT – II Distribution of Population: The concept of population density and its types. Factors affecting population distribution. Distribution & Density of population in the world with special reference to Europe, Asia and India. Growth of population: Measure of decennial and annual rates of population growth, prehistoric and modern trends of population growth in the world. Regional aspect of population growth in India. Population theories. Demographic transition.
- UNIT – III Population composition in terms of age and sex, rural, urban residence, educational status and occupational structure. Significance of these elements in population analysis, factors affecting their composition in population, broad world patterns and detailed spatial patterns in India. Fertility and Mortality of population: Significance and factor. Indices and rates. World pattern and pattern in India. Human Development Index and its Components.
- UNIT – IV Migration of population: Causes, characteristics and types. Methods of estimating value of internal migration. Important international migrations of the world, internal migration in India: Population and Resources: Population-Resource regions. Population Regions: Concept and methods, population regions of India, population policies of India.

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14. Srinivasan, K. and M. Vlassoff, Population Development Nexus in India :Challenges for the New Millennium Lata Me Graw-Hill, New Delhi, 2001.
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## SEMESTER III (2018-19)

### PAPER - XII

### SETTLEMENT GEOGRAPHY

- UNIT – I Meaning, Objectives and Scope of Settlement Geography; Evolution, Distribution, Types and Patterns of Rural Settlements; Rural House Types; Rural Service Centers. Definition, objective and scope of urban geography. General Name of city structure.
- UNIT – II Evolution and growth of urban settlements; The Geographical setting of Urban Centers: Site, Situation and Location. Rank-size relationship; Cities as Central Places, Central Place Theory, Growth Pole Theory. City-Country Relationship : Umland, Rural-Urban Fringe.
- UNIT – III Internal structure morphology and land use. theory of Urban structure the Concentric zone Theory, The Sector Theory, the Multiple Nuclei Theory. Commercial Structure of Cities; The Central Business District (CBD). Centrifugal and Centripetal ;forces in Geography, Economic Base of Towns; Basic, Non-basic concept.
- UNIT – IV Urban Functions; Functional Classification of Towns: Webb, Harris, and Nelson Contemporary Urban Planning; Types and elements, Urban problems; Blight and Renual, Landuse Planning, Urban and Metropolitan Planning in India

#### SUGGESTED READINGS:

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2. Alam, S.M. & V.V. Pokshishevesky : Urbanization in Developing Countries.
3. Berry Brain J. L. : Geographic Prospective on Urban .Systems.
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5. Dickinson, R.E. : City, Religion and Regionalism.
6. Gallion and Fisher : The Urban Pattern.
7. Grifith, , J.P : A study of Urban Constructions in India.
8. Gibbs : Urban Research Methods.
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10. Morgan, F.W. : Ports and Harbours.
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20. करण एवं यादव, अधिवास भूगोल, किताब घर, कानपुर, 2002
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22. त्रिपाठी आर.डी. रू जनसंख्या भूगोल, वसुन्धरा प्रकाशन, दाउदपुर, गोरखपुर, 2011

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## SEMESTER – III (2018-19)

### PAPER – XIII (A) REMOTE SENSING TECHNIQUES

- UNIT – I Historical development of remote sensing as a technology - Relevance of remote sensing in Geography - Concepts and basics: Energy source, energy and radiation principles, energy interactions in the atmosphere and earth surface features, remote sensing systems: platform sensors and radiation records. Microwave sensing interpretation of SLAR imageries, thermal imageries. Data Products.
- UNIT – II Remote Sensing Satellite: platforms LANDSAT, SPOT, NOAA, RADARSAT, IRS, INSAT: principles and geometry of scanners and CCD arrays, orbital characteristics and data products - MSS, TM, LISS I & II, SPOTPLA & MLA, SLAR. Recent trends in Satellite & Sensor System (World & India).
- UNIT – III Image Processing: Types of imagery, techniques of visual interpretation, ground verification transfer of interpreted thematic information to base maps-digital processing: rectification and restoration, image enhancement - contrast manipulation, Classification: Supervised and Unsupervised, post-classification analysis and accuracy assessment. Selection of appropriate data for different applications.
- UNIT – IV Applications : Air photo and image interpretations : mapping land use and land cover, land evaluation, urban land use, landform and its processes, weather studies and studies of water resources : integration of Remote Sensing and GIS. Remote sensing and hazard management, remote sensing and environmental management.

#### SUGGESTED READINGS:

1. American Society of Photogrammetry: Manual of Remote Sensing. ASP, Falls Church V.A., 1983.
2. Barrett E.C. and L.F. Curtis : Fundamentals of Remote Sensing and Air Photo Interpretation on, Memillan, New York, 1992.
3. Compbell J.: Introduction to Remote Sensing, Guilford, New York, 1989.
4. Curran, Paul J.: Principles of Remote Sensing. Longman, London, 1985.
5. Hord R.M. : Digital Image Processing of Remotely Sensed Date, Academic, New York, 1983.
6. Luder D., Aerial Photography Interpretation: Principles and Application, CcGraw Hill, New York, 1959.
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9. Thomas M. Lollasand and Ralph W. Kefer, Remote Sensing and Image Interpretation, Wiley & sons, New York, 1994.
10. Aronoff S. Geographic Information Systems : A. Management Perspective, Publication Offiawa, 1989.
11. Burrough P.A. Principles of Geographic Information Systems for Land Reson Assessment Oxford University Press, New York, 1986.
12. Fraser Taylor D.R. Geographic information Systems. Pergamor Press, Oxford 1990.
13. Maquire D.J.M.F. Goodchild and D.W. Rhind (eds.). Geographic information System 'Principles arid Application. Taylor & Francis, Washingron, 1991.
14. Mark S. Monmonier. Computer - assisted Cartography, Prentice-Hall, Englewood Cliff, Jersey, 1982.

15. Peuquet D. I. and D.F.- Marble, Introductory Reading in Geographic. Information System Taylor & Francis, Washington, 1990.
16. Star J. and J. Estes, Geographic Information Systems : An Introduction, Prentice Englewood Cliff, New Jersey, 1994.
17. चौनियाल, देवी दत्त : सुदूर संवेदन एवं भौगोलिक सूचना प्रणाली, शारदा पुस्तक भवन, इलाहाबाद

### PAPER – XIII (B) (2018-19)

#### BIOGEOGRAPHY AND ECOSYSTEM

- UNIT – I Definition and scope of Biogeography Environment, Habitat and Plant-animal association, Biome Types.
- UNIT – II Elements of plant geography, distribution of forests and major communities. Plant successions in newly formed land forms. Zoogeography and its Environmental Relationship. Pale botanical and Palaeo climatological records of environmental change.
- UNIT – III Ecosystems: concept and components, Ecosystem-form and function: tropic level, ecological pyramids, ecological niche, energy and nutrients in the ecosystem, hydrological cycle, food chains and food webs. Major terrestrial ecosystems of the world: agriculture, forests, grassland and desert. Population growth and environment.
- UNIT – IV Biodiversity and its Conservation. Preservation and conservation of the ecosystem through resource management, Environment legislation. The Stockholm conference, the Earth summit, Environmental laws in India (the Wild Life Act, Water Act, Forest Act, Environment Protection Act and National Environment Tribunal Act).

#### SUGGESTED READINGS -

1. Agrawal D.P. : Man and Environment in India through Ages, Book & Books, 1992.
2. Bradshaw, M.J. : Earth and Living Planet, ELBS. London, 1979.
3. Cox, C.D. and Moore, P.D. : Biogeography : An Ecological and Evolutionary Approach 5<sup>th</sup> edn. Blackwell, 1993.
4. Gaur, R. : Environment and Ecology of Early Man in Northern India R. B. Publication Corporation 1987.
5. Hoyt, J.B. Man and the Earth, Prentice Hall, U.S.A. 1992.
6. Huggett. R.J. : Fundamentals of Biogeography, Routledge, U.S. A. 1998.
7. Illes, J. : Introduction to Zoogeography, Mcmillan, London, 1974.
8. Khoshoo, T. N. and Sharma. M. (eds) : Indian Geosphere-Biosphere Har-Anand Publication, Delhi 1991
9. Lapedes, D.N.(ed) : Encyclopedia of Environmental Science, McGraw Hill, 1974.
10. Mathur H.S. : Essentials of Biogeography, Anuj Printers, Jaipur, 1998.
11. Pears, N. : Basic Biogeography, 2<sup>nd</sup> edn. Longman, London, 1985.
12. Simmons, I.G. Biogeography, Natural and Cultural, Longman, London, 1974.
13. Tivy J. : Biogeography: A Study of Plants in Ecosphere 3<sup>rd</sup> edn. Oliver and Boyd, U.S. A., 1992.
14. Ackerman, E.A. : Geography as a Fundamental Research Discipline, University of Chicago Research Papers, 1958

15. Agarwal, A. and Narain, S. : The Citizens Fifth Report. Centre for Science and Environmental, New Delhi, 1999.
16. Bertalanffy, L. : General Systems Theory, George Bragiller, New York, 1958.
17. Bodkin, E. : Environmental studies, Charles E Merrill Pub. Co., Columbus, Ohio, 1982.
18. Chandana, R.C. : Environmental Awareness, Kalyani Publishers, New Delhi, 1958.
19. Chorley, R.J. : Geomorphology and General Systems Theory, U.S.G.S. Professional Paper, 500B, 1962.
20. Eyre, S.R. and Jones, G.R.J. (eds) Geography as Human Ecology, Edwares Arnold, London, 1966.
21. Kormondy, E.J. : Concepts of Ecology, Prentice Hall, 1989.
22. Manners, I.R. and Mikesell, M.W. (eds.) Prespectives on Environment, Commission on College Geography, Publ. No. 13 Washington, D.C., 1974.
23. Nobel and Wright : Environmental Science, Prentice Hall, New York, 1996.
24. Odum, E.P.: Fundamentals of Ecology, W.B. Saunders, Philadelphia, 1971.
25. Russwurm, L.H. and Sommerville, E. (eds.) : Man's Natural Environment-A Systems Approach, Duxbury, Massachuselts, 1985.
26. Sharma, H.S. : Ranthambhore Sanctuary – Dilemma of Eco-development, Concept, New Delhi, 2000.
27. Simmons, I.G. : Ecology of Natural Resources, Edward Arnold, London, 1981.
28. Singh S. : Environmental Geography, Prayag Publications, Allahabad, 1991.
29. Smith, R.L. : Man and his Environment : An Ecosystem Approach, Harper & Row, London, 1992.
30. U.N.E.P. : Global Environmental Outlook, U.N. Pub. , New ork, 1998.
31. World Resources Institute : World Resoources, (Latest Report) Washington.
32. कुलश्रेष्ठ, कामता प्रसाद : जैव भूगोल, किताब घर, कानपुर 1964
33. होता, जीतेन्द्र कुमार : जैव भूगोल एवं पारिस्थितिक तंत्र, शताक्षी प्रकाशन, समता कालोनी, रायपुर द्वितीय संस्करण 2014, ISBN – 9789351042822
34. सिंह, सविन्द्र रू पर्यावरण भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद, 2015


## SEMESTER – III (2018-19)

### PAPER - XIV RESEARCH METHODOLOGY

- UNIT – I      Research Methodology-An Overview; Procedure of scientific Research, Defining Research Problem; Formulating Hypothesis; Research Design.
- UNIT – II      Methods of Data Collection: Observation, Questionnaire, Schedule and Interview; Sampling: Sampling Methods, Size of Sample;
- UNIT – III     Processing and Analysis of Data: Processing- Editing, Coding, Classification and Tabulation, Analysis ; Measurement of Central Tendency, Dispersion, Correlation.
- UNIT – IV     Preparation of Research Reports: Steps, Layout and Types of Reports

#### SUGGESTED READING:

- |   |   |
|---|---|
| 1. Selltiz, C.M. Jahoda, M. Deutsch and others. | Research Methods in Social Relations, Holt, . New York, 1961. |
| 2. Goode, W and P.K, Hatt                       | Methods in Social Research, Mc Graw Hill, .Tokyo, 1962.       |

  
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| 3. Harvey, David                        | . Explanation in Geography, Edward Arnold, London, 1971   |
| 4. Chorley, R.J. and P. Haggett (ed)    | Models in Geography, Methuen, London, 1967.   |
| 5. Minshull, R.                         | Introduction to Models in Geography. Longman London, 1975.  |
| 6. Sheskin, I.M.                        | Survey Research for Geographers Scientific Publisher, Jodhpur, 1987.  |
| 7. Kothari, C. R.                       | Research Methodology : Methods and Techniques, Wishwa Prakashan, 1994.  |
| 8. Misra H.N. and V.P. Singh            | Research Methodology in Geography: Social, Spatial and Policy Dimensions, Rawat Publications New Delhi, 1998. |
| 9. Har Prasad                           | Research Methods and Techniques in Geography, Rawat Publications, New Delhi. 1992.                            |
| 10. आहूजा राम                           | सामाजिक अनुसंधान, रावत पब्लिकेशन, जयपुर, 2015.  |
| 11. शुक्ला संतोष (संपादक)               | शोध विधितंत्र एवं भौगोलिक विश्लेषण, वर्धमान महावीर खुला विश्वविद्यालय, कोटा (राजस्थान) 2009                   |
| 12. शर्मा, वीरेन्द्र प्रकाश             | रिसर्च मेथेडोलॉजी, पंचशील प्रकाशन, जयपुर, 2008  |
| 13. यादव, हीरालाल,                      | शोध प्रविधि एवं मात्रात्मक भूगोल, 2008, दिल्ली  |
| 14. त्रिवेदी, आर.एन. एवं डी.पी. शुक्ला, | रिसर्च मेथेडोलॉजी, कालेज बुक डिपो, जयपुर, 2013  |
| 15. जैन, बी.एम.,                        | रिसर्च मेथेडोलॉजी, रिसर्च पब्लिकेशन, जयपुर, 2012  |
| 16. त्रिवेदी, आर.एन.                    | रिसर्च मेथेडोलॉजी, कालेज बुक डिपो, जयपुर  |

### SEMESTER – III (2018-19)

#### PAPER - XV

#### PRACTICAL -III

#### Remote Sensing, Interpretation of Topographical Sheets and Quantitative Techniques

- Principles of Photogrammetry:** - Air Photo- Stereo test, Orientation of stereo model under mirror stereoscope, Preparation of photo/line index and determination of photo scale, Use of parallax bar and determination of heights, Identification of features on aerial photo graph, Tracing of details from stereo pair, Interpretation of physical and cultural details, Preparation of Land use map pre field interpretation, Field visit for ground truthing.
- Remote Sensing:**– Study of satellite Image – Annotation Identification of features on FCC imageries, Tracing of details from satellite imageries, Basic Principles of Image interpretation, Interpretation of Physical and Cultural details and preparation of land use and land cover map using IRS Images. Pre field visit.
- Land use Processing System:**- Familiarization and startup procedure, Visualization of satellite image data, importing data, Creating a subset image, Identification of object on

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video display, Display of Histogram and image information, Image rectification and registration, Image to image registration, Image Enhancement techniques, Filtering techniques, Band Rationing, Principal component Analysis, Image classification.

#### **Statistical Techniques:**

Product moment and Rank Correlation Coefficients, Linear Regression. Hypothesis Testing: Chi-Square test, t-test & F test, Sampling Techniques, Point, Line and Area Sampling.

#### **SUGGESTED READINGS:**

1. American Society of Photogrammetry : Manual of Remote Sensing. ASP, Falls Church V.A. 1983.
2. Barren E.C. and I..F. Clirtis : Fundamentals of Remote Sensing and Air Photo Interpretation 'on, Memillan, New York, 1992.
3. Conipbell .1. : Introduction to Remote Sension, Glinford, "New York, 1989.
4. Clirran, Paul J. : Principles of Remote Sensing. Longman, London, 1985.
5. Hord R.M. : Digital Image Processing of Remotely Sensed Date, Academic, New York,1983
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7. Pratt W.K. Digital Image Processing. Wiley, New York, 1978.
8. Rao D. P.. (eds.) : Remote Sensing for Earth Resources, Association of Exploration Geophysicisi, Hederabad, 1998.
9. Thomas M. Lollesand and Ralph W. Keler, Remote Sensing and Image Interpretation, Wiley & sons. New York, 1994.
10. Aronoff S. Geographic Information Systems: A Management Perspective, Publication Offawa, 1989.
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12. Fraser Taylor D.R. Geographic information Systems. Pergamor Press, Oxford 1990.
13. Maquire D.J.M.F. Goodchiln and D.W. Rhind (eds.). Geographic information System Principles and Application. Taylor& Francis, Washingron, 1991.
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15. Peuquer D.J. and D.F. Marble, Introductory Reading in Geographic Information System Taylor & Francis, Washington, 1990.
16. Star J. and J. Estes, Geographic Information Systems; An Introduction, Prentice Eaglewood Cliff, New Jersey. 19

  
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**M.A./M. Sc. GEOGRAPHY  
SEMESTER IV (2018-19)**

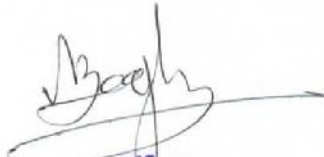
M.A./M.Sc. Geography Semester IV shall consist the following papers:

S. No.	Paper	Title	M. M.		
			Written	Int. Ass.	Total
1.	XVI	Urban Geography	80	20	100
2.	XVII	Agricultural Geography	80	20	100
3.	XVIII (A)	Geographical Information System	80	20	100
	<b>OR</b>	<b>OR</b>			
4.	XVIII (B)	Environmental Geography	80	20	100
	XIX	Field Work (Physical and Socio-Economic)	---	---	100
5.	XX	Practical-IV: Geographical Information System and Quantitative Techniques	---	---	100

1. The M.A./M.Sc. Semester IV examination in Geography shall consist of 500 marks. There shall be three theory papers and one Field Work report each of 100 marks and one practical of 100 marks as follows.

S. No.	Paper	Title
1.	XVI	: Urban Geography
2.	XVII	: Agricultural Geography
3.	XVIII (A)	: Geographical Information System
	<b>OR</b>	
	XVIII (B)	: Environmental Geography
4.	XIX	: Field Work (Physical and Socio-Economic)
5.	XX	: Practical-IV: Geographical Information system and Quantitative Techniques

2. The theory papers shall be of three hours duration.
3. Candidates will be required to pass separately in theory and practical examinations.
4. Candidates will be required to submit their Field Report in three copies in hard bound at least one hundred pages for Valuation.
5. (a) In the practical examination the following shall be the allotment of time and marks.
- |                                  |     |
|----------------------------------|-----|
| (i) Practical record             | 20% |
| (ii) Lab work (up to Four hours) | 70% |
| (iii) Viva on i. & ii. above     | 10% |
- (b) The external and internal examiners shall jointly submit marks.

  
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(c) All the candidates shall present at the time of the practical examination their practical record regularly signed by the teachers concerned.

## SEMESTER – IV (2018-19)


### PAPER-XVI

#### URBAN GEOGRAPHY

- UNIT – I Definition, Objective and Scope of urban geography, General Nature of City Structure.
- UNIT – II Internal structure: Morphology and Land use. Theories of Urban Structure: The Concentric Zone Theory, The Sector Theory, the Multiple Nuclei Theory. Commercial Structure of Cities; The Central Business District (CBD).
- UNIT – III Centrifugal and Centripetal forces in Geography, Economic Base of Towns: Basic, Non-basic concept. Urban Functions: Functional Classification of Towns: Webb, Harris, and Nelson.
- UNIT – IV Contemporary Urban Issues: Urban renewal, Urban sprawl, Slums, Environmental Pollution, Urban Planning; Landuse Planning, Urban and Metropolitan Planning in India.

#### SUGGESTED READINGS:

1. Abercrombee, Sir P. : Town and Country planning 1961.
2. Alam, Shah Manzoor : Hyderabad Secundrabad (Twin Cities) A. study in urban geography
3. Alam, S.M. & V.V. Pokshishevesky : Urbanization in Developing Countries.
4. Berry Brain J. L. : Geographic Prospectives on Urban .Systems.
5. Bresse, C. & D.F. Whiteman : An approach to Urban Planning
6. Dickinson, R.E. : City, Religion and Regionalism.
7. Gallion and Fisher : The Urban Pattern.
8. Griffith, , J.P : A study of Urban Constructions in India.
9. Gibbs : Urban Research Methods.
10. Hall P. : Urban and Regional Planning, Routledge, London, 1992.
11. Kundu, A. : Urban Development and Urban Research in India, Khanna Publication, 1992.
12. Mayor, H.M. & C.F. Kohn : Readings in Urban Geography.
13. Mumford L. : Culture of cities.
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15. Robson, W.A. : Great Cities of world.
16. Robson, B.T.: Urban Growth : An approach, Methuen, London.
17. Smailes, A E : The Geography of Towns, Hutchinson, London, 1953.
18. Tiwari, Vinod K, Jay A : Indian Cities : Ecological
19. Weinstein, VLS Prakash Rao (editors) : Perspectives, Concept, 1986.
20. Carter, Harold: Study of Urban Geography, London, Edward Arnold, 1979.
21. Singh R.L. & K.N. Singh: Readings in Rural Settlement Geography, NGSi Varanasi, 1975.
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23. Khan, Z.T., Bilaspur : A Study in Urban Geography, Northern Book Center, New Delhi.
24. Mandal, R.B., Urban Geography, R.K. Books, New Delhi.
25. Ramchandran, Urbanization and urban systems in India 2009, R.K. Books, New Delhi.
26. Dubey, R.N. Urbanization and urban planning in India, R.K. Books, New Delhi.
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30. तिवारी आर.सी. : आधिवास भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद, 1997.
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**SEMESTER – IV (2018-19)**  
**PAPER – XVII**  
**AGRICULTURAL GEOGRAPHY**

- UNIT – I Nature, scope, significance and development of agricultural geography. Approaches to the study of agricultural geography: Commodity, systematic and regional systems. Origin and dispersal of agriculture. Sources of agricultural data.
- UNIT – II Determinants of agricultural land use - Physical, economic, social, and technological Land holding and land tenure systems, Land reforms, land use Agriculture policy and planning. Selected agricultural concepts and their measurements; cropping pattern, crop concentration, intensity of cropping, degree of commercialization, diversification and specialization, efficiency and productivity, crop combination regions and agricultural development.
- UNIT – III Theories of agricultural location based on several multi-dimensioned factors:-Von Thunen's theory of agricultural location and its recent modifications; Whittlesey's classification of agricultural regions; land use and land capability. Agro-climatic & Agriculture Ecological region.
- UNIT – IV Contemporary Issues: Food, nutrition and hunger, food security, drought and food-security, food aid Programmers; role of irrigation, fertilizers, insecticides and pesticides, technological know-how. Employment in the agricultural sector: landless labourers, woman, children: occupational and agricultural activities.

**SUGGESTED READINGS:**

1. Bayliss Smith, IP.: The Ecology of Agricultural Systems. Cambridge University London, 1987.
2. Berry, B.J.L et. al. : The Geography of economic Systems. Prentice Hall, New York, 1976.
3. Brown, L.R. : The Changing World Food Prospects - The Nineties and Beyond, World Watch Institute, Washington D.C., 1990.
4. Dyson, T. : Population and Food - Global Trends and Future Prospects. Routledge. London, 1996.
5. Gregor, H.P. : Geography of Agriculture. Prentice Hall, New York, 1970.
6. Grigg, D.B. : The Agricultural Systems of the World. Cambridge University Press, New York 1974.
7. Hartshorn, T.N. and Alexander, J.W. : Economic Geography. Prentice Hall, New Delhi, 1988

  
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8. Mannion, A.M. : Agriculture and Environment Change, John Wiley, London, 1995.
9. Mitra, Manju : Agriculture Geography of Chhattisgarh Basin, Sahitya Ratnalaya Kanpur, 1980
10. Morgan W.B. and Norton , R.J.C. : Agricultural Geography. Mathuen, London, 1971.
11. Morgan, W.B.:Agriculture in the Third World - A Spatial Analysis. Westview Boulder, 1978.
12. Sauer, C.O. : Agricultural Origins and Dispersals,. M.I.T. Press, Mass, U.S.A., 1988.
13. Singh, J. and Dhillon, S.S. : Agricultural Geography. Tata McGraw Hill' Pub.; Delhi, 1988.
14. Tarrant, J.R. : Agricultural Geography. Wiley, New York, 1974.
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16. जोशी, वाय.जी. : नर्मदा बेसिन का कृषि भूगोल, मध्यप्रदेश हिन्दी ग्रंथ अकादमी, भोपाल, 1972
17. कुमार, प्रमिला : कृषि भूगोल, मध्यप्रदेश हिन्दी ग्रंथ अकादमी, भोपाल, 2008
18. हुसैन, माजिद : कृषि भूगोल, रावत पब्लिकेशन, जयपुर, 2000
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## SEMESTER – IV (2018-19)

### PAPER – XVIII (A)

#### GEOGRAPHICAL INFORMATION SYSTEM

- UNIT – I Spatial Science : Geography as a spatial science, maps and spatial information dynamics of spatial information, elements of information technology, Geographic objects and their relations definition and development of GIS, computer environment for GIS.
- UNIT – II Spatial Data: Elements of spatial data: data sources: Primary and secondary census and sample data, quality and error variations Raster and vector data structures, data conversion comparison of raster and vector data bases, methods of spatial interpolation – GIS data formats for the computer environment.
- UNIT – III GIS Technology: Coordinate system-basic principles of cartography and computer assisted cartography for GIS – remote sensing data as a data source for GIS integration of GIS and remote Sensing-GPS and GIS: technology, data generation and limitations – visualization in GIS-Digital Elevation Models (DEM and TINS).
- UNIT – IV GIS Application: GIS as a Decision Support System –expert system for GIS-basic flow chart for GIS application – GIS standard legal system and national GIS policy application of GIS in Land Information System, Urban Management, Environmental Management and Emergency Response System.

#### SUGGESTED READINGS:

1. American Society of Photogrammetry : Manual of Remote Sensing. ASP, Falls Church V.A., 1983.
2. Barrett E.C. and L.F. Curtis : Fundamentals of Remote Sensing and Air Photo Interpretation on, Memillan, New York, 1992.
3. Compbell J. : Introduction to Remote Sension, Guilford, New York, 1989.
4. Curran, Paul J. : Principles of Remote Sensing. Longman, London, 1985.
5. Hord R.M.:Digital Image Processing of Remotely Sensed Date, Academic, New York, 1983.

6. Luder D., Aerial Photography Interpretation : Principles and Application, CcGraw Hill, New York, 1959.
7. Pratt W.K. Digital Image Processing. Wiley, New York, 1978.
8. Rao D. P. (eds.) : Remote Sensing for Earth Resources, Association of Exploration Geophysicist, Hederabad, 1998.
9. Thomas M. Lollasand and Ralph W. Kefer, Remote Sensing and Image Interpretation, Wiley & sons, New York, 1994.
10. Aronoff S. Geographic Information Systems: A. Management Perspective, Publication Offiawa, 1989.
11. Burrough P.A. Principles of Geographic Information Systems for Land Reson Assessment Oxford University Press, New York, 1986.
12. Fraser Taylor D.R. Geographic information Systems. Pergamor Press, Oxford 1990.
13. Maquire D.J.M.F. Goodchild and D.W. Rhind (eds.). Geographic information System 'Principles arid Application. Taylor & Francis, Washingron, 1991.
14. Mark S. Monmonier. Computer-assisted Cartography, Prentice-Hall, Englewood Cliff, Jersey, 1982.
15. Peuquet D. .1. and D.F.- Marble, Introductory Reading in Geographic. Information System Taylor & Francis, Washington, 1990..
16. चौनियाल, देवी दत्त, : सुदूर संवेदन एवं भौगोलिक सूचना प्रणाली.

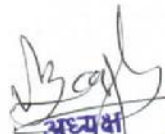
## SEMESTER – IV (2018-19)

### PAPER – XVIII (B) ENVIRONMENTAL GEOGRAPHY

- UNIT – I Environment: Meaning, definition, concepts and theories related to environment. Environment and its components: Classification, Characteristics and their interdependent relationship, Development of the environmental studies and their approaches: Development of environmentalism in Geography.
- UNIT – II Environment and development. Ecological concepts; Geography as human ecology; Ecosystem: meaning definition, Concept and components. Main terrestrial ecosystems of the world-forests and agriculture.
- UNIT – III Environmental hazards- natural and human made, environmental pollution : meaning definition, nature and types-air, water, noise and others. Ecological impacts of pollution. Resource use and ecological imbalance with special reference to soil, forests and water resources.
- UNIT – IV Environmental Management : meaning, importance and approaches, need for environmental policy and laws. Preservation and conservation of environment through resource management (Green revolution, Chipko movement, National Parks). Environmental Actions: Concept, need and importance Stockholm Conference, Earth Summit, E.I.A. definition and methods and need for EM Environmental education and People's participation.

#### Suggested Readings :

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 अध्यक्ष  
 भूगोल अध्ययनशाला  
 डॉ. रविशंकर शुक्ल विश्वविद्यालय  
 रायपुर (छ.ग.)

1. Agrawal, Anil and Sunita Narain. Dying Wisdom : The Fourth citizen Report. Centre for Science and Environment, New Delhi, 1998.
2. Burton I.; R.W. Kates & G.F. Whiley. The Environment as Hazards. O. U.P. New York, 1978, Carledge, Bryen. Population and the Environment, O.U.P., New York, 1995.
3. Chandna, R.C. Environmental Awareness Kalyani Punlishers, New Delhi, 1998.
4. Dawson, J. and J.C. Doornkamp, eds.: Evaluating the Human Environment. Edward Arnold, London, 1975
5. Detwyler, J.R.: Man,s impact on Environment. Pelican, 1970.
6. Edington, J.M. & M.A. Edington : Ecology and Environmental Planning. Chapmap & Hall, London, 1977.
7. Goudie, Andrew. The Human Impact on the Natural Environment, Blackwell Oxford, U.K. 1994
8. Jain, R. K., L.V. Urban and G.S. Stacy; Environmental Impact Analysis-A New Dimension in Decision-Making. Van Norstrand Reinhold Co. New York, 1977.
9. Khoshoo, T.N. Environmental Concepts and Strategies. Ashish Publishing House, New Delhi.
10. Mohan, M. Ecology and Development. Rawat Publications; Jaipur, 2000.
11. Munn, R.E. Environmental Impact Assessment : Principles and Procdures. John Wiley & Sons, New York, 1979.
12. Narain, Sunita. The Citizen Fifth Report. Centre for Science and Environment, New Delhi 2003.
13. Mukherji, A and V. K. Agnihotri : Environment and Development. Concept Pu. Co. New Delhi, 1993.
14. Rudig Wolfgeng. Environmental Policy Edward Elger Publishing Ltd. UK. 1998.
15. Saxena, H.M. Environmental Geography. Rawat Punlications, Jaipur, 1999
16. Saxena, H.M. Environmental Management. Rawat Punlications, Jaipur, 2000
17. Sharma, B.L. & Puar P: Global Environmental Challenges. Rohini Books, Publishers & Distriburors, Jaipur, 2004.
18. Singh, K.N. and D.N. Singh : Population Growth, Environment and Development Issues, Impacts and Responds. Environment & Development Study Centre, Varanasi, 1991.
19. Singh, R. B. and S. Mishra : Environmental Law in India : Issues and responses, Concept Pub. Co. New Delhi, 1966.
20. Singh, S. Environmental Geography. Prayag Pustak Sadan, Allahabad, 2000.
21. Smith, R.L. : Man and his Environment: An Ecosystem Aproach. Harper & Row. London, 1992.
22. U.N.E.P.: Global Environmental Outlook. U.N. Pub. New York.
23. अवस्थी एन. एम. एवं आर.पी. तिवारी पर्यावरण भूगोल, मध्यप्रदेश ग्रथ अकादमीए भोपाल ।
24. नेगी, पी. एस. : परिस्थितिकीय विकास एवं पर्यावरण भूगोल, रस्तोगी एन्ड कम्पनी, मेरठ, 1995 ।
25. रघुवंशी अरुण और चन्द्रलेखा रघुवंशी : पर्यावरण तथा प्रदूषण, मध्यप्रदेश हिन्दी ग्रथ अकादमी, भोपाल, 1989 ।
26. सविन्द्र सिंह : पर्यावरण भूगोल, प्रयाग पुस्तक सदन इलाहाबाद, 1993 ।
27. शर्मा, बी एल : पर्यावरण : साहित्य भवन, आगरा, 1992 ।
28. तिवारी, विजय कुमार : पर्यावरण और परिस्थितिकी, हिमालय पब्लिशिंग हाउस, दिल्ली 1998 ।
29. तिवारी, विजय कुमार, : पर्यावरण अध्ययन, हिमालय पब्लिशिंग हाउस, दिल्ली, 1998 ।

30. प्रसाद गायत्री, गौतम अल्का, पर्यावरण भूगोल
31. रामकुमार गुर्जर एवं जाट बी.सी., पर्यावरण अध्ययन, पंचशील प्रकाशन, जयपुर
32. व्यास, हरिशचन्द्र : पारिस्थितिकी एवं पर्यावरण, पंचशील प्रकाशन, जयपुर
33. आसरे, राम, पर्यावरण भूगोल, आर. के. पब्लिकेशन, नई दिल्ली, 2009
34. मौर्य, एस.डी. : संसाधन एवं पर्यावरण, प्रयाग पुस्तक भवन, इलाहाबाद, 2006
35. राव, बी.पी. : संसाधन एवं पर्यावरण, वसुन्धरा प्रकाशन, गोरखपुर, 2010

## SEMESTER – IV (2018-19)

### PAPER - XIX

#### FIELD WORK (PHYSICAL AND SOCIO- ECONOMIC) Physical

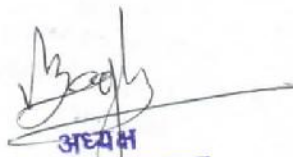
UNIT – I Trace the prominent features of area to be surveyed. Identify salient landform features of selected area on a topographical sheet. Identify the landforms on the surface, while in the field. Also note the agents of erosion, transportation and deposition associated with the landforms.

UNIT – II Identity and classify the Bio-diversity in the area (Flora & fauna). Observe the relationship of various landforms, flora and fauna with land-use, settlement structure and life style of people.

#### Socio – Economic

UNIT – III Procure a cadastral map of the village/town for field mapping of the features of land-use and land quality. Procure/prepare the settlement –site map through rapid survey to map the residential, commercial, recreational (parks, playground), educational, religious and other prominent features. Conduct a socio-economic survey of the households with a structured questionnaire. Supplement the information by personal observations and perceptions.

UNIT – IV Based on observations of the land-use and results of the socio-economic enquiry of the households, prepare a critical field-survey report. Photographs and sketches, in addition to maps and diagrams, may supplement the report.

  
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 भूगोल अध्ययनशाला  
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 रावपुर (उ.प्र.)

## SEMESTER – IV (2018-19)

### PAPER - XX

#### PRACTICAL-IV

### GEOGRAPHICAL INFORMATION SYSTEM AND QUANTITATIVE TECHNIQUES

#### Geographical Information System

An overview of GIS software, Elements of GIS: Data capture-verification and preprocessing-data storage and maintenance of databases-Database Management Systems: Spatial data creation, Editing the layers and table creation, Creation of non Spatial data, data manipulation, analysis (integrated analysis of spatial and attribute data, overlay analysis, neighborhood operations and connectivity functions) and spatial modeling-output format and generation. Buffer analysis, Network Analysis, Creation of DEM & TIN Generation of thematic map.


GPS – Demonstration and handling of Hand held GPS receivers. Ground truthing. Checking and updating of existing map, Use of GPS to Check/update the existing topographical map.

#### Quantitative Techniques:

Running mean, Mean centre, Nearest Neighbor Analysis; Lorenz Curve, Normal distribution curve, Probability.

#### SUGESSTED READINGS:

1. Singh, R.L. & P.K. Dutt : Elements of Practical Geography Students trends.
2. Monkhouse, F.J. & H.R. Wilkinson; Maps and Diagrams Mathuen, London.
3. Mahmood, Aslam 1971 : Statistical Methods in Geographical studies Rajesh Pub., New Delhi.
4. Gregory, S. Statistical Methods and The Geographer.
5. Hammond & Mccullah 1977 : Quantitative Techniques in Geography, Clarendon Press,Oxford.
6. Fitz, Gomid, B.P. : Science in Geography, Developments in Geographical Method, Oxford University Press.
7. Yeaters, M. : An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York.
8. मॉक हाउस तथा विल्किन्सन 1976 : मानचित्र तथा आरेख, म.प्र. केदारनाथ , रामनाथ, मेरठ.
9. नेगी, डी.एस. : भूगोल में आधारभूत सांख्यिकी, केदारनाथ , रामनाथ, सेठ.
10. हीरालाल : प्रायोगिक भूगोल, किताबघर, कानपुर.
11. आर.सी. तिवारी एवं सुधाकर त्रिपाठी : अभिनव प्रयोगात्मक भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद.
12. श्रीवास्तव, वी.के. : भूगोल की सांख्यिकीय विधियाँ, वसुन्धरा प्रकाशन, गोरखपुर, 2007

  
अध्यक्ष  
भूगोल अध्ययनशाला  
डॉ. रविशंकर शुक्ल विश्वविद्यालय  
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**M. Phil (2018-19)**

**Geography**

**The duration of the M. Phil Course shall be one academic year.**

**Allotment of Marks**

	<b>Theory/Lab Course</b>		<b>Marks</b>
i	Theory - I	Research Methodology and Computer Application in Geography	100
ii	Theory-II	Modern Concepts and Approaches in Geography	100
iii	Theory-III		
	Or		
	Lab Course	Cartographic and Quantitative Techniques, Remote Sensing & GIS	100
<b>Total Marks</b>			<b>300</b>
iv	Seminar	Based on Theory	50
v	Dissertation	Seminar based on dissertation	50
		Script Writing	75
		Viva-voce	25
<b>Total Marks</b>			<b>200</b>
<b>Grand Total</b>			<b>500</b>

(1) The M. Phil in Geography Examination, 2018-19 shall be of two theory papers, a Practical and Dissertation as follows :-

(2) THEORY PAPERS :-

Paper – I : Research Methodology and Computer Application in Geography.

Paper – II : Modern Concepts and Approaches in Geography

PRACTICAL:

Cartographic and Quantitative Techniques, Remote Sensing and GIS

**Dissertation:**

The distribution of marks shall be as follows:-

- (a) Each theory paper shall carry 100 marks.
- (b) 50 marks shall be allotted to the seminar based on theory.
- (c) The Practical shall carry 100 marks of which 20 marks shall be allotted to the practical record, 20 marks on viva-voce and 60 marks to the examination held at the time of annual examination
- (d) The Dissertation shall carry 150 marks divided as under
  - (i) Script - 75 Marks
  - (ii) Viva - 25 Marks
  - (iii) Seminar - 50 Marks

(3) Note :

- (A) The assessment in the seminar shall be done by the Internal Examiners.
- (B) The assessment of the Practical Record, carrying 20 marks and viva voce carrying 20 marks shall be done at time of the annual examination jointly by the external and internal examiners.
- (C) The Candidate shall submit at the time of their Practical examination, their Practical Records duly signed by the teachers concerned with dates of signature.



## Paper - I

### Research Methodology and Computer Application in Geography

- UNIT – I : Research Methodology-An Overview; Procedure of Scientific Research; Some Methodological Controversies and Explanation in Geography; Defining Research Problem; Formulating Hypothesis; Research Design.
- UNIT - II : Methods of Data' Collection; Observation, Questionnaire, Schedule and Interview; Sources of Data in Different Branches of Geography; Sampling: Need for Sampling Methods, Size of Sampling; Measurement and Scaling Techniques, Measurement in Research, Measurement Scales, Sources of Error in Measurement; Scaling: Meaning of Scaling, Scale\of Classification Bases, Important Scaling Techniques.
- UNIT – III : Processing and Analysis of Data: Processing-Editing, Coding, Classification and Tabulation, Analysis- Measurement of Central Tendency; Dispersion and Relationship, Probability; Hypothesis Testing, Simple Regression; GIS.
- UNIT – IV : Interpretation and Preparation of Research Reports: Meaning and Techniques of Interpretation, Steps, Layout and Types of Reports: Computer application.

#### BOOKS RECOMMENDED;

- Selltiz, C.M. Jahoda, M. Deutsch and Research Methods in Social Relations, Holt, . New York, 1961.
- Goode, W and P.K, Hatt Methods in Social Research, Mc Graw Hill, .Tokyo, 1962.
- Harvey, David . Explanation in Geography, Edward Arnold, London, 1971
- Chorley, R.J. and P. Haggett (ed) Models in Geography, Methuen,London, 1967.
- Minshull, R. Introduction to Models in Geography. Longman London, 1975.
- Sheskin, I.M. Survey Research for Geographers Scientific Publisher~, Jodhpur, 1987.
- Kothari, C. R. Research Methodology : Methods and Techniques, Wishwa Prakashan, 1994.
- Misra H.N. and V.P. Singh Research Methodology in Geography: Social, Spatial and Policy Dimensions, Rawat Publications New Delhi, 1998.
- Har Prasad Research Methods and Techniques in Geography, Rawat Publications, New Delhi. 1992.

## Paper – II

### Modern Concepts and Approaches in Geography

- UNIT – I : Modern Concepts and Approaches In Geography : The nature of Geographical data, Changes in the Philosophy of Geography, Paradigm of Geography, Quantitative Revolution in Geography and Philosophy of Positivism, The Question of Relevance and Ethics in Geography, Humanistic Geography.
- UNIT – II : Behavioral Geography, Welfare Geography, Future of Geography, Analytical Approaches: Spatial Analysis, Ecological Analysis, Complex Regional Analysis, Systems Approach in Geography.
- UNIT – III : Environment - Concepts and Approaches, Concepts of Ecosystem, Ecology and Human Ecology: Approaches to Environmental Studies. Environmental Problems Pollution, Concept of Resources, Resource Evaluation and Conservation. Geography and Environmentalism: The Current View of Man-Environment Relations.
- UNIT –IV : Regional Concept and Methods of Delimiting Regions, Core and Periphery. Central Place Theory, Concept of Growth Pole, Geography and Planning. Theories, Laws and Models in Geographic Explanation.

#### BOOKS RECOMMENDED:

- |                                      |   |
|--------------------------------------|---|
| Dikshit, R.D.                        | Geographical Thought: A Contextual History of Ideas, Prentice-Hall of India, New Delhi. |
| Harvey, Milton E. & Brian P. Holly:  | Themes in Geographic Thought, Rawat, Jaipur.  |
| Husain, Majid                        | Evolution of Geographical Thought, Rawat, Jaipur.                                       |
| Johnston, R.J. (ed.)                 | The Future of Geography, Methuen, London.   |
| Johnston, R.J. and P. Claval (eds) : | Geography since the Second World War; Helm, Sydney                                      |
| Chorley, R.J. and P. Haggett.        | Models in Geography, Methuen.   |
| Haggett, P.                          | Geography: A Modern Synthesis,; Harper and Row.   |
| Abler, Adams and Gould               | Spatial Organization, Prentice Hall   |
| Brookfield, Harold                   | Interdependent Development, Methuen.  |
| Gupta, H.S. and A.R.                 | Soils of un Unsurveyed Region:  |
| Chandraker                           | Part of Chhattisgarh, Pt. R.S. U., Raipur.  |
| Mitchell, Bruce                      | Geography and Resource Analysis, Longman.   |
| Forbes, D.K.                         | The Geography of Underdevelopment, New Delhi.   |
| Singh J. and D. N. Singh.            | An Introduction to Our Earth and Environment, Varanasi.                                 |
| Kayastha, S.L. and V.K. Kumra        | Environmental Studies, Varanasi.  |
| Singh, Savindra                      | Environmental Geography, Allahabad.   |

**PRACTICAL****Cartographic and Quantitative Techniques, Remote Sensing and GIS****A. Cartographic Techniques: 20 marks**

1. Isopleths: Isochrones; Lear month's Cross Tabulation Method.
2. Divided Strips: Population structure.
3. Grouped Squares: Ethnographic distribution.
4. Shop Rent Index Map.
5. The Sieve Techniques.
6. Drainage Analysis.
7. Sex-age Snail Diagram.

**B. Quantitative Techniques: 20 Marks**

1. Sampling Techniques: Point, Line and Area Sampling.
2. Running mean; Describing Point Patterns: Mean Centre and Nearest Neighbor Analysis,
3. Line Patterns: Detour Index and Shape Index.
4. Correlation: Rank order correlation, Product Moment correlation.
5. Tests: 't' Test; 'F' Test; Chi square Test.
6. Rank Size Rule; Lorenz Curve; Functional Classification of Towns; Centrality Index of Central Places.
7. Crop Combination Region, Agricultural Efficiency.
8. Gravity and Potential Models, Linear Regression.

**C. Remote Sensing and GIS: 20 Marks**

1. Photogrammetry - Elements of Photographic System, Types, Scales, Resolution Film, filters and Interpretation of Aerial Photographs.
2. Remote Sensing Applications in Land use/Land cover Mapping- data Storage, Georeferencing, Image Processing-Visual and Digital Image Processing, Image Clasifications.
3. GIS Application and Computer Cartography- Creation of Base map, Georeferencing, digitizing and Map Design.

**BOOKS RECOMMENDED:**

- Monkhouse F.J. and        -: Maps and Diagrams, Methuen London  
H.R. Wilkinson.                 (Hindi Translation, 1976)
- Gregory, S                         : Statistical Methods and the Geographer, 1964.



- Fitz Gerald, Barian P. : Science in Geography Series 1 to 4, Oxford University Press London.
- Yeates, Maurice : An Introduction to Quantitative Analysis in Human Geography, Mc Graw Hill, New York, 1968.
- Nag, Prithvish : Thematic Cartography and Remote Sensing, Concept Pub. Co. New Delhi, 1992.
- Rampal K.K. : Hand Book of Aerial Photography and Interpretation, Concept Pub.Co. New Delhi, 1999.
- Rampal K.K. : Mapping and Compilation, Methods and Techniques, Concept Pub. Co.1993
- Hammond, R : Quantitative Techniques in Geography An Introduction, Clarendon Press, London, 1974.  
and P.S. Me Cullagh

### DISSERTATION

Within 15 days from the date of admission in the M. Phil. Course, the candidate will finalise his topic of Dissertation and submit to the M. Phil Committee for approval in three copies a brief outline in consultation with a faculty teacher to whom candidate is assigned for guidance.

The Dissertation will be a phased and time bound assignment. The candidate will show his monthly progress to the supervisor.

A candidate will be required to submit three typed copies of his/her dissertation within a month after the completion of theory examination. The dissertation and Viva-Voce shall be valued by both internal and external examiners. A Declaration (Appendix – 1) by the candidate and a certificate (Appendix-2) from the Supervisor/ Co-supervisors shall be included in the dissertation.

The evaluation of the seminar on the dissertation will be done internally by the supervisor and at least one other teacher connected with the course.



**Syllabus for Ph.D. Course work in Geography (2017-18)**

**Paper – II Geography – elective (15 C)**

**There are two papers: each with 15 credits. Total credit: 15 X2 = 30**

**I credit = Five lecture of 1 hour each.**

C= credit; L = Lecture

**Paper - I**      Research Methodology, Computer Fundamentals, Statistical tools and techniques  
in Geography (15 C)

**Paper – II**      Geography – elective (15 C)

**Paper - I : Research Methodology, Computer Fundamentals, Statistical tools and techniques in Geography (15 C)**

A	Research Methodology : An overview; explanation in Geography Defining Research Problem' Procedure of Scientific Research Formulation Hypothesis; Research design	
B	Sources of data in Geography Methods of data collection: observation, schedule, questionnaire and interview, Processing of data: Processing, editing, coding and classification and tabulation; Sampling, sampling methods and size of the sample.	
C	Analysis of data: measurement of Central Tendency, dispersion and relationship; probability Measurement in research, measurement scale, sources of error in measurement, important scaling techniques: Quantitative techniques: Correlation: Rank order Correlation, Product Movement Correlation;	
D	Running mean; describing point patterns: Mean Centre, Nearest Neighbour Analysis, Line Pattern: Detour Index and Shape index, Tests: 't' Test' 'F' Test, Chi square Test; Rank Size Rule; Lorenz Curve; Functional Classification of towns; Centrality index for central place; Crop Combination Region, Agricultural Efficiency; Gravity and Potential Models: Linear Regression.	
E	Interpretation and preparation of Research Report: Meaning and techniques of interpretation, steps, layout and type of reports;	
F	Computer application: computer fundamentals, Microsoft office (word, excel and Power Point), internet, Computer cartography, Remote sensing and GIS application.	

**Paper – II - Elective (15 C)**

A1	Geomorphology	
A2	Population Geography	
A3	Social Geography	
A4	Settlement Geography ( Rural and Urban)	
A5	Agriculture Geography	
A6	Resource Geography	
A7	Regional Development and Planning	
A8	Remote Sensing and GIS	
B	Review writing-Topic of review relevant to the proposed Ph. D. work	
C	Writing of research proposal, statement of problem, objective, hypothesis, and plan of the thesis.	
D	Thesis writing, Formats of report writing, Formats of Publications in research Journals; Bibliography	
E	Seminar presentation; Preparation of Research Paper	

**Scheme of examination for the pre-Ph.D. course work for Geography**

Scheme of examination for the pre-Ph.D. course work for Geography		
	Examination scheme	
1	The question paper will be of 100 marks	
2	There will be five questions. All the five questions shall be compulsory.	
3	The pattern of the question paper shall be as follows:	
	Q. 1 Objective questions of multiple choice type (40 questions to be answered) covering contents of both papers equally.	40
	Q.2. Short answers type questions ( in about 50-100 words)	10
	Q.3. Shorts notes (in about 200-250 words)	10
	Q.4. Preparation of any suitable research proposal	20
	Q. 5. Preparation of any research paper	20
4	The answer papers will be assessed independently by two examiners.	
5	The candidate must obtain 50% or more marks to qualify in the course work	

**BOARD OF STUDIES IN GEOLOGY**  
**COURSE CURICULUM FOR**  
**M. Sc. GEOLOGY (Four Semesters Course)**  
**Academic Session 2018-19**

**CHOICE BASED CREDIT SYSTEM (CBCS)**

There shall be four semesters in two academic years. Semester I and III consist of Four Theory courses and two Lab courses carrying 100 marks each. Semester II consists of Four Theory papers carrying 100 marks each, Lab course I of 150 marks and the Lab course II of 50 marks. In IV<sup>th</sup> Semester, there will be Three Major/Core Theory Papers and One Major/core ELECTIVE Paper, along with respective practical. Theory papers carry 100 marks each, Lab course I carries 150 marks and Lab course II, 50 marks. Each semester carries 20 credits. Besides this, a student will have to clear two Papers of 3 credits each out of the Minor ELECTIVE courses from other Subjects/Disciplines as per his/her choice. A student will clear 80 core credits and 6 credits from choice based elective papers offered during Sem II and III. Thus, a student will have to clear total 86 credits for obtaining M. Sc. Degree.

The practical examination would be of 3 to 4 hours duration. In each practical 20 % marks shall be allotted for Sessional work, 10% marks are allotted for viva-voce.

**Fieldwork:** Fieldwork is an essential component of the course, and carries 2 Credits. Every student will have to do 2 to 3 weeks of fieldwork (in continuation or in breaks) during the first academic year. He will be required to submit a field report for evaluation under FIELD WORK of second semester examination.

A student has to submit his choice of Major/Core ELECTIVE Papers at the beginning of III Semester. If a candidate chooses for The Project Oriented Dissertation in lieu of Core ELECTIVE Paper, he/she shall be allotted a topic for the Project work. He/She will have to complete his fieldwork related to Project before the commencement of Fourth Semester, while Laboratory work can be completed along with regular course of study during Fourth Semester. M. Sc. Dissertation thesis must be submitted within 30 days after the completion of IV<sup>th</sup> Semester theory examination.



## SCHEME OF EXAMINATION

### SEMESTER – I CORE COURSES (2018-19)

Course No	Title of Paper	Max Marks			Credits
		Theory	Internal Assmt.	Total	
I	Structural Geology	80	20	100	4
II	Mineralogy	80	20	100	4
III	Geochemistry	80	20	100	4
IV	Crystallography & crystal optics	80	20	100	4
Lab Course -I	Structural Geology & Survey	100	-	100	2
Lab Course –II	Crystallography, Crystal Optics, Mineralogy & Geochemistry	100	-	100	2
	Total	520	80	600	20

### SEMESTER – II CORE COURSES (2017-18)

Course No	Title of Paper	Max Marks			Credits
		Theory	Internal Assmt.	Total	
I	Igneous Petrology	80	20	100	4
II	Metamorphic Petrology	80	20	100	4
III	Sedimentology & Crustal Evolution	80	20	100	4
IV	Stratigraphic principles and Indian Geology	80	20	100	4
Lab Course -I	Petrology and Stratigraphy	150	-	150	2
Lab Course -II	Fieldwork	50	-	50	2
	Total	520	80	600	20

**SEMESTER – III CORE COURSES (2019-20)**

Course No	Title of Paper	Max Marks			Credits
		Theory	Internal Assmt.	Total	
I	Paleontology	80	20	100	4
II	Ore & Fuel Geology	80	20	100	4
III	Geomorphology and Remote Sensing	80	20	100	4
IV	Mineral Exploration	80	20	100	4
Lab Course -I	Ore Geology and Mineral Exploration	100	-	100	2
Lab Course -II	Paleontology, Geomorphology and Remote sensing	100	-	100	2
	Total	520	80	600	20

**SEMESTER – IV CORE COURSES (2019-20)**

Course No	Title of Paper	Max Marks			Credits
		Theory	Internal Assmt.	Total	
I	Mining and Engineering Geology	80	20	100	4
II	Environmental Geology	80	20	100	4
III	Hydrogeology	80	20	100	4
Lab Course -I	Hydrogeology, Engineering Geology and Mining geology	150	-	150	2
	Total	390	60	450	14

**CORE ELECTIVE COURSES (ANY ONE)**

Course No	Title of Paper	Max Marks			Credits
		Theory	Internal Assmt.	Total	
ME I	Advanced Hydrogeology	80	20	100	4
Lab course ME- I	Advance hydrogeology	50		50	2
ME II	Project Oriented Dissertation	100		100	4
	Script Evaluation and Viva Voce on Project Dissertation	50		50	2
	Total	130		150	6
	Total credits of IV Semester				20

		Max Marks			Credits
		Theory	Internal Assmt.	Total	
	<b>Grand Total</b>	2080	320	2400	80
	Minor elective courses				06
	<b>Total credits</b>				86

**MINOR ELECTIVE COURSES**

		Max Marks	Credits
		Total	
GMnE-1	Fundamentals of Geology	100	3
GMnE-2	Disaster Management	100	3

**SEMESTER – I      COURSE: I - STRUCTURAL GEOLOGY      (2018-19)**

**UNIT – I**

- 1.1 Rock deformation: Theory of stress & strain, their relationship; Factors controlling rock deformation
- 1.2 Properties of elastic, plastic and brittle materials; Progressive deformation.
- 1.3 Strain analysis: types of strain; strain ellipse; strain ellipsoid; Geological application of strain theory.
- 1.4 Stress analysis: compressive and shear stress; biaxial and triaxial stress. Mohr's Circle and envelope.

**UNIT – II**

- 2.1 Fold: Definition; Classifications - Geometrical and Genetic; Fleuty, Ramsay and Dip Isogon
- 2.2 Mechanism of Fold formation and types of fold
- 2.3 Superimposed fold; Outcrop pattern of superimposed structure comprising of two fold system.
- 2.4 Joints its types; their analysis and relation with major structures

**UNIT – III**

- 3.1 Fault: Types and mechanism of faulting.
- 3.2 Principal stress orientation for the main fault types; Relationship between stress and strain ellipsoid.
- 3.3 Analyses of brittle-ductile and ductile shear zones
- 3.4 Petrofabric Analysis: Field and laboratory techniques; Preparation of petrofabric diagrams and their interpretation.

**UNIT – IV**

- 4.1 Cleavage & Schistosity: definition and types.
- 4.2 Mechanism of formation of Cleavage & Schistosity; its relationship with major deformation structures
- 4.3 Lineation: definition and its types; their mode of development and relation to major structures.
- 4.4 Plutons: Definition & description; its role in progressive deformation.

**UNIT – V**

- 5.1 Tectonites: definition and its types
- 5.2 Stereographic Projection: Principles and application
- 5.3 Tectonics and structural characteristics of Plate Boundaries; associated structures in extensional, compressional and strike-slip terranes
- 5.4 Geodynamic evolution of the Himalayas

**Books Recommended:**

- Ghosh, S.K. (1993): Structural Geology: Fundamental and Modern Development. Pergamon Press.
- Hobbs, B.E., Means, W.D. and Williams, P.F. (1976): An outline of Structural Geology, John Wiley and Sons, New York.
- Ramsay, J.G. (1967): Folding and fracturing of rocks, McGraw Hill.
- Ramsay, J.G. and Huber, M.I. (1983): Techniques of Modern Structural Geology, Vol. I Strain Analysis, Academic Press.
- Ramsay, J.G. and Huber, M.I. (1987): Techniques of Modern Structural Geology, Vol. II, Folds and Fractures, Academic Press.
- Ramsay, J.G. and Huber, M.I. (2000): Techniques of Modern Structural Geology, Vol. III (Application of continuum mechanics), Academic Press.
- Turner, F.J. and Weiss, L.E. (1963): Structural analysis of Metamorphic Tectonites, McGraw Hill.
- Windley B. (1973): The Evolving continents, John Wiley and Sons, New York.

**UNIT- I**

- 1.1 Composition of minerals and Mineraloids.
- 1.2 Physical Properties of Minerals depending on Crystal Growth, Crystal Structure, Chemical Composition and Interaction with light.
- 1.3 Electrical Magnetic, Luminescence, Thermal and Radioactive Properties of Mineral.
- 1.4 Structure of Silicates.

**UNIT- II**

- 2.1 Ionic Radius, Coordination Principles, Close Packing, Pauling's Rules.
- 2.2 Unit Cell, Bonding Forces in crystals Ionic Bond, Covalent Bond, Van Der Waal's Bond, Metallic Bond.
- 2.3 Solid solution - Substitution, Interstitial and Omission solid solution. Ex-solution.
- 2.4 Polymorphism, polytypism, pseudomorphism.

**UNIT – III**

Classification of Minerals. Systematic Mineralogy of common rock forming silicate groups.

- 3.1 Classification of Minerals
- 3.2 Nesosilicates – a) Olivine Group b) Garnet Group c)  $Al_2SiO_5$  Group d) Zircon,
- 3.3 a) Topaz, b) Staurolite, c) Sphene.
- 3.4 Sorosilicates - Epidote

**UNIT- IV**

Systematic Mineralogy of common rock forming silicate groups

- 4.1 Cyclosilicates- a) Cordierite b) Tourmaline c) Beryl
- 4.2 Inosilicates - a) Pyroxene Group
- 4.3 Inosilicates – a) Amphibole Group
- 4.4 Phyllosilicates- a) Serpentine Group b) Mica Group c) Chlorite Group d) Clay Mineral Group – Kaolin and Talc,

**Unit – V**

Systematic Mineralogy of common rock forming silicate, carbonate and phosphate groups

- 5.1 Tectosilicates- a)  $SiO_2$  Group b) Zeolite Group
- 5.2 Tectosilicates – a) Feldspar Group b) Feldspathoid Group
- 5.3 Carbonates and Phosphates
- 5.4 Gem and Semi precious minerals.

**Books Recommended:**

- Berry, L.G., Mason, B. and Dietrich, R.V. (1982): Mineralogy, CBS Publ.  
Dana, E.S. and Ford, W.E.(2002): A textbook of Mineralogy (Reprint).  
Kerr, P.F. (1977): Optical Mineralogy, McGraw Hill.  
Moorhouse, W.W. (1951): Optical Mineralogy, Harper and row Publ.  
Nesse, D.W. (1986): Optical Mineralogy, McGraw Hill.  
Perkins, D. (1998): Mineralogy, Prentice Hall.  
Winchell, E.N. (1951): Elements of Optical Mineralogy, Wiley Eastern.

**UNIT – I**

- 1.1 Cosmic Abundance of the Elements and Nucleosynthesis. Formation of Solar System and Planets. Geology and Chemistry of Moon.
- 1.2 Composition and Classification of Meteorites, Chondrules, Chondrites and Achondrites. Geochemical classification of elements.
- 1.3 Trace, Volatile, Semi volatile, Alkali and Alkaline earth elements its behaviour in magmatic processes.
- 1.4 REE and Y, HFSE elements, Transition & Noble elements-its importance and concentrations in various igneous rocks and its behaviour in various magmatic processes.

**UNIT – II**

- 2.1 Partition coefficient, Factors governing partition co-efficient.
- 2.2 Compatible and incompatible elements, behaviour of these elements in various magmatic processes.
- 2.3 Fundamental Laws of Thermodynamics. Free energy. Phase equilibrium and Gibb's Phase Rule. Thermodynamics of magmatic Crystallization.
- 2.4 Geochemistry of Crust.

**UNIT – III**

- 3.1 Geochemistry of island arcs.
- 3.2 Composition of Mantle, mineralogy of lower mantle.
- 3.3 Phase transition in the Mantle, mineral-phase transition in lower mantle.
- 3.4 Geochemical evolution of Mantle Plume.

**UNIT – IV**

- 4.1 Aquatic Chemistry- Acid Base reaction, Dissolution and Precipitation of  $\text{CaCO}_3$ . Solubility of Mg,  $\text{SiO}_2$  and  $\text{Al}(\text{OH})_3$ .
- 4.2 Geochemical properties of clays - Kaolinite, Pyrophyllite and Chlorite Groups. Ion exchange properties of clays
- 4.3 Redox in Natural Waters. Eutrophication.
- 4.4 Factors controlling Weathering. Soil profile. Chemical and biogeochemical cycling in the soil

**UNIT - V**

- 5.1 Basics of radiogenic isotope geochemistry. Scope of stable isotope geochemistry
- 5.2 Composition of Rivers. Composition of Seawater- Temperature variation. Density structure and deep circulation
- 5.3 Distribution of  $\text{CO}_2$  in Ocean. Carbonate dissolution and precipitation.
- 5.4 Sources and sinks of Dissolved matter in seawater.

**Books Recommended:**

- Drever, J. I., 1988. *The Geochemistry of Natural Waters*, Prentice Hall, Englewood Cliffs, 437 p.
- Garrels, R. M. and C. L. Christ. 1965. *Solutions, Minerals and Equilibria*. New York: Harper and Row.
- Burns, R. G. 1970. *Mineralogical Applications of Crystal Field Theory*. Cambridge: Cambr Univ. Press.
- Henderson, P. 1986. *Inorganic geochemistry*. Oxford: Pergamon Press.
- Brownlow, A. H. 1996. *Geochemistry*. New York: Prentice Hall.
- Krauskopf, K. B. and D. K. Bird. 1995. *Introduction to Geochemistry*. New York: McGraw-Hill.
- Bowen, R. 1988. *Isotopes in the Earth Sciences*, Barking (Essex): Elsevier Applied Science Publishers.
- Condie, K. C. 1989. *Plate Tectonics and Crustal Evolution*. Oxford: Pergamon.
- Faure, G., 1986. *Principles of Isotope Geology*, 2nd ed., Wiley & Sons, New York, 589p.
- White, W. M. Geochemistry (Online)

**SEMESTER – I    COURSE: IV - CRYSTALLOGRAPHY & CRYSTAL OPTICS    (2018-19)**

**UNIT – I**

- 1.1 Crystal growth. Development of ideas of internal structure of crystals.
- 1.2 Space lattices and point systems. X-ray analysis of crystal structure, SEM, TEM.
- 1.3 Morphology of crystals. Fundamental Laws of Crystal Zones and Zonal Symbols.
- 1.4 Symmetry elements, operations. Classification of Crystals in 32 Classes.

**UNIT – II**

- 2.1 Symmetry and forms of crystals of isometric, tetragonal and hexagonal systems.
- 2.2 Symmetry and forms of crystals of orthorhombic, monoclinic and triclinic systems.
- 2.3 Goniometry of Crystals. Crystal Projections – Spherical, Gnomonic and Stereographic.
- 2.4 Crystal Aggregates, Twinning, Irregularities & Imperfections in Crystals.

**UNIT – III**

- 3.1 Principles of transmission and reflection of light from crystals. Classification of minerals according to interaction of light, Interference colour.
- 3.2 Refraction and Refractometry. Methods of determination of R.I.
- 3.3 Birefringence in Crystals. Significance and use of plates, wedge and Berek Compensator.
- 3.4 Pleochroism in Crystals.

**UNIT-IV**

- 4.1 Classification of Crystals into isotropic, Uniaxial and Biaxial minerals.
- 4.2 Isotropic, uniaxial and biaxial indicatrix.
- 4.3 Optical characters of Isotropic and uniaxial minerals.
- 4.4 Optical characters of biaxial minerals.

**UNIT - V**

- 5.1 Optical Orientation – Extinction angle, Universal stage. Construction & Use.
- 5.2 Dispersion in mineral optic axial angle.
- 5.3 Optical anomalies.
- 5.4 Systematic determination of optical properties of minerals.

**Books Recommended:**

- Phillips, F.C (1971): Introduction to Crystallography, Longman Group Publ.  
Dana, E.S. and Ford, W.E. (2002): A textbook of Mineralogy (Reprint).

**LAB COURSE – I****A] Structural Geology**

1. Concept of line and plane, attitude of plane and line. Bedding plane, dip and strike, and their measurement
2. Criteria for determination of top and bottom of strata in structurally deformed terrain and its study in hand specimen.
3. Preparation and interpretation of geological maps for simple structure contour maps, as well as, for fold, fault and unconformity
4. Stereographic projection – problems in angular relationship true dip, apparent dip plunge and rake of the intersection of planes.
5. Three point problems: Geometric solutions for three point problems

**B] Survey**

1. Field techniques of geological mapping using:
2. a) Chain tape; Plane table and Prismatic compass,
3. b) Global Positioning System.

**LAB COURSE – II****A] Mineralogy and Geochemistry**

1. Megascopic study of common rock forming minerals.
2. Microscopic study of common rock forming minerals.
3. Principles and methods of geochemical analysis. Calculation of mineral formulae.
4. Determination of total hardness in water.
5. Spot test for qualitative analysis.

**B] Crystallography and Crystal Optics**

1. Morphological study of crystal models and twins.
2. Stereographic projection of crystals.
3. Optical determination of
  1. Refractive Index.
  2. Order of Interference colour and birefringence.
  3. Interference figure and optic sign.
  4. Scheme of pleochroism.
  5. An content (Michel Levy's method)
  6. 2V.



SEMESTER – II      **COURSE: I – IGNEOUS PETROLOGY (2018-19)**

**UNIT- I**

- 1.1 Factors affecting magma and its evolution. Composition of primary magma; mantle mineralogy.
- 1.2 Partial melting of mantle – different models. Trace element behavior during partial melting.
- 1.3 Magmatic differentiation processes.
- 1.4 Behavior of major and trace elements during fractional crystallization.

**UNIT – II**

- 2.1 Concurrent assimilation and fractional crystallization. Magma mixing.
- 2.2 Various criterion for classification of Igneous rocks
- 2.3 Petrographic Province. Different variation diagrams and their applications.
- 2.4 Crystallization of basaltic magmas. Generation of magma with reference to plate tectonics.

**UNIT - III**

Study the petrogenetic significance of following silicate systems:

- 3.1 Albite-Anorthite and Forsterite – Silica
- 3.2 Diopside-Albite-Anorthite
- 3.3 Diopside-forsterite-silica
- 3.4 Nepheline-kalsilite-silica

**UNIT – IV**

Petrogenetic study of the following rock types and their distribution in India:

- 4.1 Basalt and Ophiolite
- 4.2 Peridotite, Ultramafite
- 4.3 Granite, Anorthosite
- 4.4 Komatite, Kimberlite and Lamproite

**UNIT- V**

- 5.1 Petrogenetic study of the Carbonatite, Lamprophyre, and their distribution in India.
- 5.2 Mid-ocean ridge volcanism and oceanic intra-plate volcanism.
- 5.3 Magmatism associated with subduction related igneous activity- continental and island arcs.
- 5.4 Magmatism in Large Igneous Plutons and continental alkaline magmatism.

**Books recommended:**

- Bose, M.K. (1997): Igneous Petrology, World Press, Kolkata.
- Best, Myron G. (2002): Igneous and Metamorphic Petrology, Blackwell Science.
- Cox, K.G., Bell, J.D. and Pankhurst, R.J. (1993): The Interpretation of Igneous Rocks, Chapman and Hall, London.
- Faure, G. (2001): Origin of Igneous Rocks, Springer.
- Hall, A. (1997): Igneous Petrology, Longman.
- LeMaitre R.W. (2002): Igneous Rocks: A Classification and Glossary of Terms, Cambrian University Press.
- McBirney (1994): Igneous Petrology, CBS Publ., Delhi.
- Phillipotts, A.R. (1994): Principles of Igneous and Metamorphic Petrology, Prentice Hall of India.
- Sood, M.K. (1982): Modern Igneous Petrology, Wiley-Interscience Publ., New York.
- Srivastava, Rajesh K. and Chandra, R., (1995): Magmatism in Relation to Diverse Tectonic Settings, A.A. Balkema, Rotterdam.
- Wilson, M. (1993): Igneous Petrogenesis, Chapman and Hall, London.
- Winter, J.D. (2001): An Introduction to Igneous and Metamorphic Petrology, Prentice Hall, New Jersey.

**UNIT – I**

- 1.1 Definition of metamorphism, significance of metamorphic rocks.
- 1.2 Agents and kinds of metamorphism.
- 1.3 Phase rule and its application in metamorphism.
- 1.4 Structure and texture of metamorphic rocks and their significance.  
Classification of metamorphic rocks.

**UNIT – II**

- 2.1 Fabric of metamorphic rocks.
- 2.2 Evolution of the concept of depth zones. Systematic study of Barrovian and Abukuma zones of metamorphism.
- 2.3 Grade of metamorphism, Isograd & Isoreactiongrade and construction of petrogenetic grids.
- 2.4 Concept of facies and facies series.

**UNIT- III**

- 3.1 Study of ACF, AKF and AFM diagrams.
- 3.2 Polymetamorphism and paired metamorphic belts.
- 3.3 Metamorphic differentiation.
- 3.4 Retrograde Metamorphism and Crystalloblastic series.
- 3.5

**UNIT - IV**

- 4.1 General Characters of thermal and regional metamorphism of limestone, shale and basic igneous rocks.
- 4.2 Metamorphism in relation to magma and orogeny.
- 4.3 Metasomatism-Principles and types of metasomatism. Granitization.
- 4.4 Anataxis, Palingenesis. Origin of Migmatites in the light of experimental studies.

**UNIT-V**

- 5.1 Kinetics of metamorphic mineral reaction. Pressure – temperature – time paths.
- 5.2 Ultra-high temperature and ultra-high pressure and ocean floor metamorphism.
- 5.3 Layering in metamorphic rocks.
- 5.4 Petrogenetic significance of following rocks with special reference to Indian occurrences: charnockite, amphibolite, Khondalite, Gondite, Eclogite, and Blue schist.

**Books Recommended:**

- Blatt, H. and Tracy, R.J. (1996): Petrology (Igneous, Sedimentary, Metamorphic), W.H. Freeman and Co., NewYork.
- Bucher, K. and Martin, F. (2002): Petrogenesis of Metamorphic Rocks (7<sup>th</sup> Rev. Ed.), Springer–Verlag,.
- Kerr, P.F. (1959): Optical Mineralogy, McGraw Hill Book Company Inc., New York.
- Philpotts, A.R. (1994): Principles of Igneous and Metamorphic Petrology, Prentice Hall.
- Powell, R. (1978): Equilibrium thermodynamics in Petrology: An Introduction, Harper and Row Publ., London.
- Rastogy, R.P. and Mishra, R.R. (1993): An Introduction to Chemical Thermodynamics, Vikash Publishing House.
- Spear, F. S. (1993): Mineralogical Phase Equilibria and pressure – temperature – time Paths, Mineralogical Society of America.
- Spry, A. (1976): Metamorphic Textures, Pergamon Press.
- Winter, J.D. (2001): An introduction to Igneous and Metamorphic Petrology, Prentice Hall.

Wood, B.J. and Fraser, D.G. (1976): Elementary Thermodynamics for Geologists, Oxford University Press, London.

Yardley, B.W.D., Mackenzie, W.S. and Guilford, C. (1995): Atlas of Metamorphic Rocks and their textures, Longman Scientific and Technical, England.

Yardley, B.W.D. (1989): An introduction to Metamorphic Petrology, Longman Scientific and Technical, New York.

**SEMESTER- II      COURSE: III - SEDIMENTOLOGY AND CRUSTAL EVOLUTION (2018-19)**

**UNIT- I**

- 1.1 Earth surface system – liberation and flux of sediments.
- 1.2 Processes of transport and generation of sedimentary structures. Flow regimes and related bed forms
- 1.3 Stromatolites and their significance.
- 1.4 Textural analysis of sediments, Graphical representation, statistical treatment and geological significance.

**UNIT – II**

- 2.1 Classification of sandstone and carbonate rocks. Dolomite and dolomitization.
- 2.2 Volcaniclastics. Sedimentary environments and facies.
- 2.3 Continental: alluvial-fluvial facies, Lacustrine, Desert – Aeolian and glacial sedimentary environments.
- 2.4 Shallow coastal clastics and shallow water carbonates.

**UNIT – III**

- 3.1 Evaporites. Deep-sea basins.
- 3.2 Paleocurrents and basin analysis.
- 3.3 Clastic Petrofacies. Palaeoclimates and paleoenvironment analysis.
- 3.4 Diagenesis of sandstone and carbonate rocks – changes in mineralogy, fabric, and chemistry.

**UNIT- IV**

- 4.1 Petrogenesis of arkoses, greywacke and quartz arenites.
- 4.2 Evolution of lithosphere, hydrosphere, atmosphere and biosphere.
- 4.3 Application of Trace, REE and stable isotopes geochemistry to sedimentological problems.
- 4.4 Surface features of earth – island arcs, mid-oceanic ridges, Young mountain belts and their distribution. Evolution of continental and oceanic crust.

**UNIT - V**

- 5.1 Lithological, geochemical, stratigraphic characteristics of granite-greenstone belts
- 5.2 Evolution of Proterozoic sedimentary basins of India.
- 5.3 Anatomy of Orogenic belts and formation of mountain roots
- 5.4 Life in Pre Cambrians, PreCambrian Cambrian boundary with special reference to India

**Books Recommended:**

- Blatt, H., Middleton, G.V. and Murray, R.C. (1980): Origin of Sedimentary Rocks, Prentice-Hall Inc.
- Collins, J.D., and Thompson, D.B. (1982): Sedimentary Structures, George Allen and Unwin, London.
- Lindholm, R.C. (1987) A Practical Approach to Sedimentology, Allen and Unwin, London.
- Miall, A.D. (2000): Principles of Basin Analysis, Springer-Verlag.
- Pettijohn, F.J. (1975): Sedimentary Rocks (3rd Ed.), Harper and Row Publ., New Delhi.
- Reading, H.G. (1997): Sedimentary Environments and facies, Blackwell Scientific Publication.
- Reineck, H.E. and Singh, I.B. (1973): Depositional Sedimentary Environments, Springer-Verlag.
- Selley, R. C. (2000) Applied Sedimentology, Academic Press.
- Tucker, M.E. (1981): Sedimentary Petrology: An Introduction, Wiley and Sons, New York.
- Tucker, M.E. (1990): Carbonate Sedimentology, Blackwell Scientific Publication.
- Allen P. A. and J.R.L. Allen (2005): Basin Analysis: Principles and Application, Blackwell Publ.
- Perry, C.T. and Taylor, K.G. (2006): Environmental Sedimentology, Blackwell Publ., U.K.
- Bird, J.M. (1980): Plate Tectonics, American Geophysical Union, Washington D.C.
- Briggs, J.C. (1987): Biogeography and Plate Tectonics, Elsevier.
- Lieberman, B. L.(2000): Paleobiogeography: using fossils to study Global Change, Plate Tectonics and Evolution, Plenum Publ., New York.
- Jacquelyne Kious, J. and Tilling, R.I. (2007): This Dynamic Earth: The story of Plate Tectonics, USGS Information Services.
- Gass I.G. (1982): Understanding the Earth. Artemis Press (Pvt) Ltd.U.K.
- Windley B. (1973): The Evolving continents, John Wiley and Sons, New York.

## SEMESTER – II COURSE: IV - STRATIGRAPHIC PRINCIPLES AND INDIAN GEOLOGY (2018-19)

### UNIT – I

- 1.1 Principles of stratigraphic scales and its divisions, dual classification.
- 1.2 Stratigraphic units – lithostratigraphic, biostratigraphic and chronostratigraphic.
- 1.3 Rules of stratigraphic nomenclature.
- 1.4 Stratigraphic correlation.

### UNIT – II

- 2.1 Concept of sequence stratigraphy.
- 2.2 Chief divisions of Indian sub continent and their physiographic characters.
- 2.3 Archaean Era. Distribution and classification in Peninsula (Mysore, Bihar, M. P. and Rajasthan) and extrapeninsular regions. Their correlation and economic importance.
- 2.4 Dharwar Supergroup (Classification, Distribution, Economic importance)

### UNIT – III

- 3.1 Cuddappah Supergroup its distribution, classification & equivalent in extra peninsula.
- 3.2 Vindhyan Supergroup – its distribution classification age economic importance and correlation.
- 3.3 Chhattisgarh Group, Indravati Group and Khairagarh Group, their classification, age correlation and economic importance.
- 3.4 Palaeozoic formations of extra peninsular regions with special reference to their classification distribution and correlation.

### UNIT – IV

- 4.1 Distribution, geological succession, classification and climate of Gondwana Supergroup. Age and correlation of Gondwana formations.
- 4.2 Jurassic system of rocks – in extrapeninsular region.
- 4.3 Distribution, Classification & correlation of cretaceous formations of Peninsula and extra peninsular regions of India.
- 4.4 Distribution, structural features and age of the Deccan Traps. Inter trappeans and infra trappeans of India

### UNIT – V

- 5.1 Problems of Permo-triassic and Cretaceous – Palaeocene boundaries.
- 5.2 Distribution, succession, correlation and life of Siwalik formations.
- 5.3 Distribution, lithology, correlation & life of the Cenozoics of Assam & Western India and Pleistocene (Quaternary) deposits, Karewa Beds, Indogangetic Alluvium.
- 5.4 Quaternary climate, glacial and interglacial cycle, Eustatic changes

#### Books Recommended:

- Boggs, S. (2001): Principles of Sedimentology and Stratigraphy, Prentice Hall.
- Danbar, C.O. and Rodgers, J. (1957): Principles of Stratigraphy, John Wiley and Sons.
- Doyle, P. and Bennett, M.R. (1996): Unlocking the Stratigraphic Record, John Wiley and Sons.
- Krishnan, M.S. (1982): Geology of India and Burma, C.B.S. Publ. and Distributors, Delhi.
- Naqvi, S.M. and Rogers, J.J.W. (1987): Precambrian Geology of India, Oxford University Press.
- Pascoe, E.H. (1968): A Manual of the Geology of India and Burma (Vols.I-IV), Govt. of India Press, Delhi.
- Pomeroy, C. (1982): The Cenozoic Era? Tertiary and Quaternary, Ellis Harwood Ltd., Halsted Press.
- Schoch, Robert, M. (1989): Stratigraphy: Principles and Methods, Van Nostrand Reinhold, New York.
- Krumbein and Sloss (1963): Stratigraphy and sedimentation II Ed. Freeman & Co.

**LAB COURSE – I A: IGNEOUS & METAMORPHIC PETROLOGY**

1. Megascopic description and identification of igneous and metamorphic rocks.
2. Study of textures and structures of Igneous and metamorphic rocks.
3. Microscopic identification of Igneous and metamorphic rocks.
4. C.I.P.W. Norm calculations and classification of igneous rocks.
5. Constructions of variation diagrams of igneous suits of rocks.
6. Construction of A.C.F., A.K.F. and A.F.M. diagrams.
7. Plotting the Geographical distribution of Igneous and Metamorphic rocks types in and outline map of India.
8. Use of software for norm calculation and geochemical modeling

**LAB COURSE – I B: SEDIMENTARY PETROLOGY AND STRATIGRAPHY**

1. Megascopic description and identification of sedimentary rocks.
2. Study of sedimentary structures in hand specimen.
3. Microscopic study of sedimentary rocks.
4. Graphic representation of sedimentary data and interpretation.
5. Heavy mineral studies of sediments.
6. Distribution of Important geological formations on outline map of India.
7. Construction of fence diagrams
8. Correlation diagrams. Recognition of transgressive-regressive cycles based on vertical columns.

**LAB COURSE - II: GEOLOGICAL FIELD WORK**

1. Geological mapping in type areas of India to study structural relations and stratigraphic formations in sedimentary, igneous and metamorphic terrains.
2. Collection and study of primary and secondary structures of rock bodies and their interpretation.
3. Sampling of rocks, minerals and fossils in the field from study areas.
4. Preparation of geological maps and sections from the geological data obtained in the field.
5. Preparation of geological report based on field studies.
6. Viva-Voce on fieldwork and geological report.

SEMESTER – III      **COURSE: I – PALAEOLOGY (2019-20)**

**UNIT – I**

- 1.1 Definition of fossil and modes of fossilization their application in age determination, paleoclimatology, palaeogeography and evolution.
- 1.2 Modes and theories of organic evolution, concept of bathymetric distribution of animals, migration and extinction of species.
- 1.3 Outline classification of organisms.
- 1.4 Study of morphology, classification, evolutionary trends and geologic and geographic distribution of Brachiopod.

**UNIT – II**

Study of morphology, Classification, Evolutionary geologic history of the following

- 2.1 Pelecypoda (Lamellibranches)
- 2.2 Gastropoda.
- 2.3 Cephalopoda
- 2.4 Trilobites.

**UNIT – III**

Study of morphology, Classification, Evolutionary geologic history of the following

- 3.1 Echinoids. Graptolites and Rugose Corals.
- 3.2 An elementary idea about the origin of major groups of vertebrates.
- 3.3 Study of evolutionary history of Horse and Elephant Man.
- 3.4 Study of evolutionary history of Man.

**UNIT – IV**

- 4.1 General study of Siwalik mammalian fauna.
- 4.2 Plant life through geologic ages.
- 4.3 Study of fossil flora of Gondwana Group and Tertiary Formations of India.
- 4.4 Definition and scope of micropaleontology.

**UNIT - V**

- 5.1 Techniques in micropaleontology.
- 5.2 Application of microfossils in stratigraphic correlation, age determination and palaeoenvironmental interpretations.
- 5.3 Study of morphology of foraminifers.
- 5.4 Classification, evolution and geological distribution of foraminifers.

**Books Recommended:**

- Boardman, R.S., Cheethan, A.M. and Rowell, A.J. (1988): Fossil Invertebrates, Blackwell.
- Clarkson, E.N.K. (1998): Invertebrate Paleontology and Evolution, Allen and Unwin, London.
- Dobzhansky, Ayala, Stebbins and Valentine (1977): Evolution, Freeman.
- Horowitz, A.S. and Potter, E.D. (1971): Introductory Petrography of Fossils, Springer Verlag.
- Mayr, E. (1971): Population, Species and Evolution, Harvard.
- Prothero, D.R. (2004): Bringing Fossil to Life – An Introduction to Paleontology (2nd Ed.), McGraw Hill.
- Raup, D.M. and Stanley, S.M. (1985): Principles of Paleontology, CBS Publ..
- Smith, A.B.(1994): Systematics and Fossil Record – Documenting Evolutionary Patterns, Blackwell.
- Stearn, C.W. and Carroll, R.L. (1989): Paleontology – the record of life, John Wiley.
- Bigot, G., Grahm and Trotman (1985): Elements of Micropaleontology, London.
- Romer, A.S. (1966): Vertebrate Paleontology (3<sup>rd</sup> Edn.) Chicago University Press

**UNIT – I**

- 1.1 Modern concepts of ore genesis. Spatial and temporal distribution of ore deposits- Global perspective.
- 1.2 Concept of ore bearing fluids, their origin and migration. Fluid inclusion in ores – limitations and applications.
- 1.3 Texture, paragenesis and zoning in ores.
- 1.4 Wall rock alteration. Structural, physico-chemical and stratigraphic controls of ore localization.

**UNIT – II**

- 2.1 Orthomagmatic ores of mafic-ultramafic association \_ Diamonds in Kimberlites, REE in Carbonatite, Ti -V Ores, Chromite and PGE, Ni Ores.
- 2.2 Cyprus type Cu-Zn Ores.
- 2.3 Ores of Silicic igneous rocks- Kiruna type Fe-P. Pegmatoids, Greisen and Skarn deposits.
- 2.4 Porphyry associations – Kuroko type Zn-Pb-Cu, Malanjkhand Type Cu-Mo deposits.

**UNIT – III**

- 3.1 Ores of Sedimentary affiliations- Chemical and Clastic sediments. Stratiform and Stratabound ore deposits. (Fe, Mn, non ferrous). Placers and paleoplacers.
- 3.2 Ores of Metamorphic affiliations. Metamorphism of ores and metamorphogenic ores.
- 3.3 Ores related to weathered surfaces – Bauxite, Ni and Au laterite.
- 3.4 Mineralogy, genesis, distribution in India and uses of Cu, Pb, Zn.

**UNIT- IV**

- Mineralogy, genesis, distribution in India and uses of following ore deposits:
- 4.1 Iron and manganese
  - 4.2 Gold and Silver
  - 4.3 Aluminum and chromium
  - 4.4 National Mineral Policy and mineral concession rules.

**UNIT – V**

- 5.1 Definition and origin of Kerogene and coal. Rank, Grade and type of coal. Microscopic constituents of coal.
- 5.2 Chemical characterization of coal Proximate and Ultimate analysis. Coal bed methane.
- 5.3 Distribution of Coal in India. Origin, nature and migration of oil and gas. Characteristics of reservoir rocks.
- 5.4 Oil bearing basins of India. Geology of productive oil fields of India. Mode of Occurrence and association of atomic minerals in nature. Productive geological horizons.

**Books Recommended:**

- Branes, H.L. (1979): Geochemistry of Hydrothermal Ore Deposits, John Willey.
- Cuilbert, J.M. and Park, Jr. C.F. (1986): The Geology of Ore Deposits, Freidman.
- Evans, A.M. (1993): Ore Geology and Industrial Minerals, Blackwell.
- James R. Craig and David J. Vaughan (1994): Ore Microscopy and Petrography.
- Klemm, D.D. and Schnieder, H.J. (1977): Time and Strata Bound Ore Deposits, Springer-Verlag.
- Mookherjee, A. (2000): Ore Genesis-A Holistic Approach, Allied Publisher.
- Ramdhor, P. (1969): The Ore Minerals and their Intergrowths, Pergamon Press.
- Stanton, R.L. (1972): Ore Petrology, McGraw Hill.
- Wolf, K.H. (1976-1981): Hand Book of Stratabound and Stratiform Ore Deposits, Elsevier Publ.
- Chandra, D. Singh, R.M. Singh, M.P. (2000): Textbook of Coal (Indian context), Tara Book Agency, Varanasi.
- Singh, M.P. (1998): Coal and organic Petrology, Hindustan Publishing Corporation, New Delhi.
- Textbook of Coal petrology, Gebruder Borntraeger, Stuttgart.



Van Krevelen, D. W. (1993): Coal, Typology-Physics-Chemistry-Constitution), Elsevier Science, Netherlands.

North, F.K. (1985): Petroleum Geology, Allen Unwin.

Selley, R.C. (1998): Elements of Petroleum Geology, Academic Press.

Mineral Concession Rules 1960 (2005), IBM, Nagpur.

Sinha, R.K. and Sharma, N.L. (1976): Mineral economics, Oxford and IBH Publ.

**UNIT – I**

- 1.1 Geomorphic concepts and geomorphic cycle. Geomorphic agents: Running water, Groundwater, Glaciers, Winds, Sea waves; Geomorphic processes: Gradation, degradation-Weathering, Mass-Wasting and Erosion, aggradation. Soil formation.
- 1.2 Valley development, classification of valley, cycle of erosion, rejuvenation; Drainage patterns and their significance.
- 1.3 Fluvial landforms: Flood plain deposits, Meander belt deposits, Deltaic plain deposits, Alluvial fans and bajadas.
- 1.4 Glaciers: Continental and High land glaciers. Glacial erosional features: Cirque, Glacial troughs, Hanging valleys, Aretes, Truncated spurs, Fjords, Fiards, Trough lakes. Depositional features: Glacial till, glacial forms (Moraines, Drumlines), glacio-fluviatile forms (Valley trains, Eskers, Kame terraces, Kame, Kettles), glacio- lacustrine features (Lakes).

**UNIT – II**

- 2.1 Karst topography: Characteristic features of Karst (Lapies, Sink holes, Natural tunnels and bridges), Erosional remnants (Hums, Haystack hills), Depositional features of caves (Cave travertine, stalactites, stalagmites, Columns). Eolian landforms: Erosional features (Yardang), Depositional features (Dunes and Loess).
- 2.2 Coastal landforms: Erosional features (Headland and Bays, Cliffs and wave cut platforms, caves, arches, stacks and stumps); Depositional features (Beaches, Dunes, Berms, Spits, Bars, Tombolos and Islands). Volcanic landforms. Types of volcanoes, volcanic depressions, volcanic plateaus and plains, volcanic skeletons.
- 2.3 Structural landforms: Types of domal structures, topographic expression of domes; Folded structures, adjustment of topography to folded structures; Fault scarps and Fault line scarps, Horsts and Grabens, topographic expressions of various types of faults.
- 2.4 Terrain classification, Terrain evaluation, Drainage basin morphometry and analysis, Geomorphic regions of India.

**UNIT – III**

- 3.1 Remote sensing- active and passive, physical basis of remote sensing. Matter and EMR: electronic, vibrational and rotational transition; energy partitioning- reflection, transmission, absorption, scattering. Irradiance, Exitance, Lambertian surface. Conservation of energy principle: Reflectance, Absorptance, Transmittance.
- 3.2 Interaction of EMR with atmosphere: Scattering- Rayleigh, Mie, Non-selective. Atmospheric windows. Interaction of EMR with rocks and minerals: Charge transfer transition, Bond stretching transition, Bond bending transition, emissivity, selective radiators, thermal inertia.
- 3.3 Interaction of EMR with vegetation and water.
- 3.4 Platforms: Terrestrial, Aerial and Space borne. Satellite orbits: Polar and equatorial orbits. Types of satellite: Earth resource and communication satellites.

**UNIT – IV**

- 4.1 Remote sensing sensors: Photography camera, Vidicon camera, Line-scanning systems-MSS, TM, Pushbroom sensors- SPOT, IRS.
- 4.2.1 Microwave imaging system: Passive method- emitted energy from the earth, antenna, resolution, microwave emittance imaging. Active method- wavebands, radar, range, resolution, real aperture radar, synthetic aperture radar, slant range image, ground range image.
- 4.2.2 Data collection: Microwave telemetry, analogue images, picture elements and digital numbers, single band image, FCC.
- 4.3 Visual interpretation elements and image interpretation. Introductory digital image processing: Image histogram, Contrast stretch, Composite generation.

## UNIT – V

- 5.1 Aerial photography: Planning and execution of photographic flights. Photogrammetry: Geometry of aerial photographs- Parallel, orthogonal and central projections, tilt. Image displacement, Parallax, Stereoscopy.
- 5.2 Application of remote sensing in geology
- 5.3 Application of remote sensing in Geomorphology
- 5.4 Application of remote sensing in terrain evaluation

### Books recommended:

- Drury, S.A. (2001): Image Interpretation in Geology, Allen and Unwin.
- Gupta, R.P. (1991): Remote Sensing Geology, Springer-Verlag.
- Halis, J.R. (1983): Applied Geomorphology.
- Holmes,A.(1992): Holmes Principles of Physical Geology, Edited by P. McL. D. Duff. Chapman and Hall.
- Lillesand, T.M. and Kiefer, R.W. (1987): Remote Sensing and Image Interpretation, John Wiley.
- Sharma, H.S. (1990): Indian Geomorphology, Concept Publishing Co., New Delhi.
- Siegal, B.S. and Gillespie, A.R. (1980): Remote Sensing in Geology, John Wiley.
- Thornbury, W.D. (1980): Principles of Geomorphology, Wiley Easton Ltd., New York.

**UNIT- I**

- 1.1 Prospecting & Exploration: Definition and characteristic features. Reconnaissance. Preliminary and detailed investigation, surface and subsurface methods.
- 1.2 Guides to ore search: global, regional and local guides, detailed study of regional physiographic, stratigraphic, lithological, mineralogical and structural guides. Persistence of ore in depth.
- 1.3 Drilling: Type of drills, Diamond drilling, Drilling records and logs, Duty of geologists during drilling.
- 1.4 Sampling: General principles, various methods and procedures, Average assays, weighting of samples, salting. Precautions.

**UNIT- II**

- 2.1 Calculating grade and tonnage of ore: Average grade, volume, specific gravity, tonnage factor, calculations from data obtained from bore holes, prospecting pits, trenches, ore blocks, geological maps and sections. UNFC classification
- 2.2 Gravity Method of prospecting: Basic principles of gravimeter. Gravity field surveys. Various types of corrections applied to gravity data.
- 2.3 Preparation of gravity anomaly maps. And their interpretation in terms of shape, size and depth.
- 2.4 Magnetic method of prospecting: Magnetic properties. Magnetic anomaly. Magnetometer. Field survey and data reduction. Preparation of magnetic anomaly maps. Aeromagnetic surveys.

**UNIT-III**

- 3.1 Seismic prospecting: Fundamentals of seismic wave propagation, Methods of seismic prospecting and interpretation of seismic data.
- 3.2 Basic principles of resistivity method. Resistivity survey. Application and interpretation of resistivity data. S.P. Method and interpretation of data obtained by S. P. Method.
- 3.3 Radiometric prospecting and Borehole Logging. Radiometric survey, Application and interpretation of data.
- 3.4 Borehole logging: Principles of various borehole-logging methods, Interpretation of data.

**UNIT- IV**

- 4.1 Geochemical cycle, Forms of primary and secondary dispersion of elements. Secondary dispersion processes and anomalies.
- 4.2 Factors affecting dispersion patterns. Main types of geochemical surveys.
- 4.3 Methods of litho-geochemical and pedo-geochemical surveys.
- 4.4 Methods of hydro-geochemical, atmo-geochemical and biogeochemical surveys.

**UNIT - V**

- 5.1 Case studies of regional exploration for deposits of plutonic associations and vein and replacement types.
- 5.2 Analytical methods – sample preparation and decomposition. Precision and accuracy.
- 5.3 Instrumentation and applications of Atomic absorption spectrometer, Emission spectrograph and XRF.
- 5.4 Statistical treatment of geochemical data.

**Books Recommended:**

- Arogyaswami, R.P.N. (1996): Courses in Mining Geology, Oxford and IBH Publ.
- Bagchi, T.C., Sengupta, D.K., Rao, S.V.L.N. (1979): Elements of Prospecting and Exploration, Kalyani Publ.
- Banerjee, P.K. and Ghosh, S. (1997): Elements of Prospecting for Non-fuel Mineral deposits, Allied Publ.
- Chaussier, Jean – Bernard and Morer, J. (1987): Mineral Prospecting Manual. North Oxford Academic.
- Dhanraju, R. (2005): Radioactive Minerals, Geol. Soc. India, Bangalore.
- Rajendran, S. (2007): Mineral Exploration: Recent Strategies.
- Sinha, R.K. and Sharma, N.L. (1976): Mineral economics, Oxford and IBH Publ.

**LAB COURSE: I - ORE GEOLOGY AND MINERAL EXPLORATION**

1. Megascopic study of metallic and nonmetallic economic minerals. Description and identification, uses and distribution in India.
2. Description and identification of ore minerals in polished section of ores.
3. Study of ore textures and structure under the microscope.
4. Paragenetic study of ore minerals and construction of Paragenetic diagrams.
5. Location of important metallic and non-metallic mineral compels in a map of India.
6. Calculation of ore reserves and assay values.
7. Study and interpretations of Isopach and Isograde maps.
8. Evaluation of simple mining plans.
9. Interpretation of Geophysical and geochemical anomaly maps.
10. Numerical problems based on Geophysical and geochemical data.

**LAB COURSE: II**

**[A] PALEONTOLOGY**

1. Study and identification of important invertebrate, vertebrate and plant fossils. Drawing of neat sketches of fossils.
2. Sketching and labeling of representative fossil specimens.
3. Identification and study of important foraminifers.

**[B] GEOMORPHOLOGY AND REMOTE SENSING**

1. Identification and interpretation of drainage patterns
2. Drawing of labeled diagrams of landforms
3. Determination of stream order, bifurcation ratio, drainage density, stream frequency, infiltration number.
4. Slope studies of landforms.
5. Study of areal photographs and satellite imageries and identification of landforms.

**UNIT – I**

- 1.1 Definition of mining terms: pitting, trenching, panning, adits, tunnels, and shafts.
- 1.2 Role of geologist in mining industry. Strata control in different rocks and structures.
- 1.3 Geological structures of ore deposits and choice of mining methods.
- 1.4 Subsidence and rock bursts, mine supports, Ventilation and drainage.

**UNIT – II**

- 2.1 Open pit mining- geologic and geomorphic conditions, different methods of opencast mining, advantages and limitations.
- 2.2 Underground mining methods- gophering, shrinkage, stoping, caving and slicing sublevel, over hand, under hand methods.
- 2.3 Coal mining methods, long wall, board and pillar.
- 2.4 Engineering properties of rocks and soil. Physical characters of building stones. Metal concrete aggregate.

**UNIT - III**

- 3.1 Role of geologist in civil construction projects.
- 3.2 Geological considerations for evaluation of Dam and reservoir sites. Dam foundation problems. Dam failure.
- 3.3 Geotechnical evaluation of tunnel alignment and transportation routes. Methods of tunneling.
- 3.4 Classification of ground for tunneling purposes. Various types of supports.

**UNIT - IV**

- 3.1 General principles, economic justification and scope of mineral dressing.
- 3.2 Properties of rocks and minerals as applied to mineral dressing.
- 3.3 Primary and secondary breaking, crushing and grinding, liberation by sizes, reduction.
- 3.4 Principles and methods of screening.
- 3.5 Principles and methods of classification, classification as a means of concentration.

**UNIT- V**

- 4.1 Concentration methods, hand sorting, washing, jigging, tabling heavy fluid.
- 4.2 Magnetic and electrostatic methods of separation of minerals.
- 4.3 Flotation methods- Principles and techniques with examples.
- 4.4 Application of ore microscopy in mineral dressing.  
Concentration methods- with flow sheets of common types of mineral and ore dressing practices in India - Gold, copper, Lead-zinc, coal, beach sand, fluorite, iron, manganese, chromite and limestone.

**Books Recommended:**

- Dobrin, M. B.; Savit, C. H. (1988): Introduction to Geophysical Prospecting, McGraw-Hill.
- Keary, P., Brooks, M. and Hill, I. (2002): An introduction to geophysical exploration, (3rd Ed.), Blackwell.
- Krynine, D.H. and Judd, W.R. (1998): Principles of Engineering Geology, CBS Publ..
- Rider, M. H. (1986): Whittles Publishing, Caithness. The Geological Interpretation of Well Logs, (Rev. Ed).
- Schultz, J.R. and Cleaves, A.B. (1951): Geology in Engineering, John Willey and Sons, New York.
- Singh, P. (1994): Engineering and General Geology, S.K. Kataria and Sons, Delhi.

SEMESTER - IV      **COURSE: II – ENVIRONMENTAL GEOLOGY (2019-20)**

**UNIT- I**

- 1.1 Definition, history and scope of Environmental Geology.
- 1.2 Environment, Ecology, Ecosystems and habitat.
- 1.3 Nature of its degradation.
- 1.4 Basic concepts of Environmental Geology.

**UNIT- II**

- 2.1 Interaction of man and natural systems.
- 2.2 Conservation principle, conservation of mineral and fuel resources.
- 2.3 Conservation of soil and water resources.
- 2.4 Geological hazards- Lands slides, volcanic activity, Earthquake.

**UNIT- III**

- 3.1 Draught and desertification, Measures of mitigation.
- 3.2 Geological hazards -River flooding, erosion and sedimentation, coastal erosion, cyclones and tsunamis.
- 3.3 Transgression and Regression of sea. Measures of mitigation.
- 3.4 Human modifications of nature in surface and subsurface by engineering constructions dams, reservoirs, bridges and buildings.

**UNIT - IV**

- 4.1 Changes in surface and subsurface by mining activities.
- 4.2 Changes in surface and subsurface by mineral based industries.
- 4.3 Human settlement and contamination of atmosphere, soil, surface water and groundwater by waste disposal and agro-industries.

**UNIT- V**

- 5.1 Environmental policies of the Government for air and water pollution. Environmental laws.
- 5.2 Problems of environment in urban areas, causes and remedies.
- 5.3 Climate Change and global warming: Causes and Impact (ozone hole).
- 5.4 Environment impact assessment report and preparation of environment Management plans.

**Books Recommended:**

- Bryant, E. (1985): Natural Hazards, Cambridge Univ. Press.
- Keller, E.A.(1978): Environmental Geology, Bell and Howell, USA.
- Nagabhushaniah, H.S. (2001): Goundwater in Hydrosphere, CBS Publ.
- Perry, C.T. and Taylor, K.G. (2006): Environmental Sedimentology, Blackwell Publ.
- Singh, S. (2001): Geomorphology, Pustakalaya Bhawan, Allahabad.
- Todd, D.K. (1995): Groundwater Hydrology, John Wiley and Sons.
- Valdiya, K.S.(1987): Environmental Geology – Indian Context, Tata McGraw Hill.

**UNIT- I**

- 1.1 Scope of hydrogeology and its relation with hydrology, meteorology and their uses in the Hydrogeological investigation.
- 1.2 Hydrologic cycle. Role of groundwater in the hydrologic cycle.
- 1.3 Hydrograph, data collection and analysis.
- 1.4 Water table and piezometric surface. Water table fluctuation. Water table contour maps, interpretation and uses.

**UNIT- II**

- 2.1 Water bearing formation - aquifers, aquitard, aquiclude, aquifuge. Aquifer types: perched, unconfined, semi-confined and confined. Isotropic, anisotropic aquifers.
- 2.2 Porosity, permeability. Ground water movement: Darcy's law and its applications.
- 2.3 Specific yield and specific retention. Storativity and transmissivity
- 2.4 Steady and unsteady flow, leaky aquifers. Groundwater flow near aquifer boundaries

**UNIT- III**

- 3.1 Bounded aquifers. Image wells.
- 3.2 Water wells and their types. Construction of wells.
- 3.3 Well Development and completion.
- 3.4 Pumping test and Yield of wells.

**UNIT-IV**

- 4.1 Geological and Hydrogeological methods of groundwater exploration.
- 4.2 Geophysical methods – Electrical resistivity method for groundwater exploration
- 4.3 Application of remote sensing in groundwater exploration.
- 4.4 Basin wise development of groundwater with special reference to Chhattisgarh region.

**UNIT – V**

- 5.1 Groundwater provinces of India.
- 5.2 Sources of dissolved constituents in groundwater. Groundwater quality standards-drinking, domestic, agriculture and industry. Groundwater pollution.
- 5.3 Groundwater management. Safe yield, overdraft and spacing of wells.
- 5.4 Conservation of Groundwater; conjunctive use of water. Artificial recharge.

**Books Recommended:**

- C.F. Tolman (1937): Groundwater, McGraw Hill , New York and London.  
 D.K. Todd (1995): Groundwater Hydrology, John Wiley and Sons.  
 F.G. Driscoll (1988): Groundwater and Wells, UOP, Johnson Div.St.Paul. Min. USA.  
 H.M. Raghunath (1990): Groundwater, Wiley Eastern Ltd.  
 H.S. Nagabhushaniah (2001): Groundwater in Hydrosphere (Groundwater hydrology), CBS Publ.  
 K. R. Karanth (1989): Hydrogeology, Tata McGraw Hill Publ.  
 S.N. Davies and R.J.N. De Wiest (1966): Hydrogeology, John Wiley and Sons, New York



LAB COURSE – I

150 Marks

**[A] HYDRGEOLOGY**

1. Hydrogeological properties of rocks.
2. Interpretation of water table maps.
3. Computation of pumping test data.
4. Interpretation of Hydrogeochemical data and their plotting in different diagrams.
5. Sieve analysis and screen gravel pack design.
6. Plotting of groundwater provinces on an outline map of India.
7. Computation of Resistivity (VES) data.

**[B] ENGINEERING GEOLOGY AND MINING GEOLOGY**

1. Interpretation of engineering properties of rocks in hands specimens.
2. Determination of compressive, tensile and sheer strength of rocks.
3. Determination of porosity and absorption of building materials.
4. Mechanical analysis of soils and unconsolidated materials.
5. Preparation of core-logs and their Geotechnical interpretation from bore hole data.
6. Plotting the geographical distribution of important dams, tunnels on the outline of India.
7. Terrain studies from satellite imageries, aerial photographs and Toposheet.

**ME- I ADVANCED HYDROGEOLOGY****UNIT- I**

- 1.1 Hydrologic cycle, ground water in hydrologic cycle
- 1.2 Hydrograph and hydrographic analysis
- 1.3 Water balance studies
- 1.4 Springs (including thermal): Origin and movement of water.

**UNIT- II**

- 2.1 Geologic structures favouring groundwater movement. Groundwater reservoir properties.
- 2.2 Forces and laws of groundwater movement.
- 2.3 Well hydraulics: confined, unconfined, unsteady and radial flow. Water level fluctuation and its causative factors.
- 2.4 Water well technology: Well types, drilling methods, construction, designing, development and maintenance of wells.

**UNIT- III**

- 3.1 Groundwater in arid and semiarid regions.
- 3.2 Groundwater in coastal and alluvial regions.
- 3.3 Groundwater in hard rocks and limestone terrain. Environmental impact on groundwater extraction.
- 3.4 Ground water recharge: artificial and natural. Factors controlling recharge. Conjunctive and consumptive use of groundwater.

**UNIT- IV**

- 4.1 Chemical characterization of groundwater in relation to domestic and industrial uses.
- 4.2 Chemical characterization of groundwater for irrigation purposes.
- 4.3 Water pollution: remedial measures and treatment
- 4.4 Problems of arsenic and fluoride in water.

**UNIT-V**

- 5.1 Geological and hydrogeological methods of groundwater exploration.
- 5.2 Geophysical surface resistivity and seismic methods in groundwater exploration.  
Geophysical water well logging.
- 5.3 Application of remote sensing and radiogenic isotopes in hydrogeological studies.
- 5.4 Basin-wise groundwater management.

**LAB COURSE: ME-IL**

- 1 Morphometric analysis of Watershed
- 2 Interpretation of groundwater features on water table maps
- 3 Computation of storativity and transmissivity of aquifer from pumping test data
- 4 Interpretation of subsurface layers from resistivity field survey data
- 5 Chemical quality assessment of groundwater
- 6 Use of Software for morphometric analysis,

SEMESTER - IV (2019-20)

**ME-II PROJECT ORIENTED DISSERTATION**

<b>SCRIPT EVALUATION</b>	<b>100</b>
<b>SEMINAR</b>	<b>25</b>
<b>VIVA VOCE</b>	<b>25</b>

**MINOR ELECTIVE**

**GMnE- I FUNDAMENTALS OF GEOLOGY**

**UNIT- I**

- 1.1 Geology and its perspective. Earth in the Solar System
- 1.2 Age of the earth.
- 1.3 Interior of the earth and its manifestation.
- 1.4 Brief introduction of hydrosphere and atmosphere. Hydrologic cycle.

**UNIT-II**

- 2.1 Earthquakes and Volcanoes.
- 2.2 Continental Drift
- 2.3 Fundamentals of Plate Tectonics and Plate boundaries
- 2.4 Distribution of Oceans and Continents. Tectonic divisions of India

**UNIT- III**

- 3.1 Definition and classification of minerals, rock forming minerals
- 3.2 Classification of rocks. Igneous rocks and their types.
- 3.3 Sedimentary and Metamorphic rocks and their types.
- 3.4 Deformation in rocks. Folds, Faults and Unconformities

**UNIT- IV**

- 4.1 Geomorphic agents, Weathering.
- 4.2 Salient geomorphic features.
- 4.3 Types mountains and plains
- 4.4 Fossils and their applications

**UNIT- V**

- 5.1 Industrial uses of Iron, Manganese, Bauxite
- 5.2 Industrial uses of Copper, Lead and Zinc
- 5.3 Fossil Fuels: Coal and Petroleum- mode of occurrence and distribution in India
- 5.4 Conservation of energy and mineral resources.

**Books Recommended:**

Mukherjee, P. K. (2005). Text Book of Geology, The World Press Pvt. Ltd.  
Roy, A. B. (2010). Fundamentals of Geology, Narosa Pub. House Pvt. Ltd.

## **MINOR ELECTIVE**

### **GMnE- II DISASTER MANAGEMENT**

#### **UNIT- I**

- 1.1 Natural Disasters: Introduction
- 1.2 Causes and impact of Floods, Droughts,
- 1.3 Cyclone, Landslides,
- 1.4 Earthquake and Tsunamis

#### **UNIT- II**

- 2.1 Man-made Disasters: introduction
- 2.2 Causes and impact of Nuclear, Industrial accidents,
- 2.3 Environmental disasters, fires, rail accidents, road accidents,
- 2.4 Air accidents and sea accidents

#### **UNIT – III**

- 3.1 Hazard Risk Concept and Elements.
- 3.2 Risk Analysis and Risk Assessment.
- 3.3 Resource Analyses and Mobilisation.
- 3.4 Strategic Developments for Vulnerability Reduction

#### **UNIT- IV**

- 4.1 Disaster Preparedness: Conception and Nature.
- 4.2 Disaster Management – Prevention, Preparedness and Mitigation.
- 4.3 Search and rescue operations
- 4.4 Use and Applications of Emerging Technologies in Disaster Preparedness.

#### **UNIT- V**

- 5.1 Disaster Management Plan
- 5.2 Disaster Response Plan.
- 5.3 Communication, Participation, and Activation of Emergency Preparedness Plan.
- 5.4 Logistics Management.

#### **Books Recommended:**

- Bell, F.G. (1999): Geological Hazards, Routledge, London.
- Bryant, E. (1985): Natural Hazards, Cambridge Univ. Press.
- Keller, E.A. (1978): Environmental Geology, Bell and Howell, USA.
- Lal, D. S. (2007): Climatology, Sharda Pustak Bhawan, Allahabad.
- Patwardhan, A.M. (1999): The Dynamic Earth System, Prentice Hall.
- Smith, K. (1992): Environmental Hazards, Routledge, London.
- Subramaniam, V. (2001): Textbook in Environmental Science, Narosa International.
- Valdiya, K.S. (1987): Environmental Geology – Indian Context, Tata McGraw Hill.

# SCHOOL OF STUDIES IN GEOLOGY & WRM

## PT. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR

### SYLLABUS FOR POST GRADUATE DIPLOMA IN APPLIED HYDROGEOLOGY

(in collaboration with Rajiv Gandhi National Ground Water Training and Research Institute, CGWB)

The **AIM** of the Course is capacity building & Research within the state of Chhattisgarh. Applications in Hydrogeology for Geoscientists present the most recent scientific developments in the field that are accessible yet rigorous enough for industry professionals and academic researchers alike.

**OBJECTIVE OF THE COURSE** is to provide an opportunity for individuals to learn the full scope of hydrogeology. The course addresses the developments in hydrogeology, ground water and hydrology that are underscored with perspectives regarding the challenges that are facing industry professionals, researchers, and academia and emerge as a *Professional Hydrogeologist*.

#### 1. COURSE STRUCTURE AND DURATION

The course shall comprise of two theory papers, two lab course practical and an independent dissertation. The duration of the course will be of one year duration. The details are as follows:

<b>Theory</b>	
Paper I	Groundwater Occurrence, Movement, Distribution & Hydraulics
Paper II	Groundwater Regime Monitoring and Assessment
<b>Practicals</b>	
Lab Course I	Groundwater Occurrence, Movement, Distribution & Hydraulics
Lab Course II	Groundwater Regime Monitoring and Assessment
<b>Dissertation</b> (Report + Presentation + Viva voce)	

**2. SCHEME OF EXAMINATION:** The total marks for the course shall be 500, including theory, practical and dissertation.

<b>Theory</b>		<b>Max Marks</b>
Paper I	Groundwater Occurrence, Movement, Distribution & Hydraulics	100
Paper II	Groundwater Regime Monitoring and Assessment	100
<b>Practicals</b>		
Lab Course I	Groundwater Occurrence, Movement, Distribution & Hydraulics	50
Lab Course II	Groundwater Regime Monitoring and Assessment	50
<b>Dissertation</b> (Report + Presentation + Viva voce)		200
<b>Total</b>		<b>500</b>

### **3. RESULT DECLARATION:**

The minimum score for passing theory is 50% and practical is 50%. The candidate has to score minimum 50% marks in theory and practical examination separately. The viva-voce will be based on the overall understanding of the subject

### **4. SYLLABUS**

#### **Paper I: Groundwater Occurrence, Movement, Distribution & Hydraulics**

**Maximum Marks: 100**

##### **Unit – I**

Occurrence of Ground Water; Hydrological Cycle; Precipitation, Infiltration, Percolation, Runoff, baseflow; Rainfall data Analysis; Origin, Age, Ground Water on earth; Types of water; Vertical Distribution of Water

##### **Unit – II**

Ground Water Movement; Types of Aquifer; Aquifer Properties – Permeability, Storage, Storativity, Transmissivity; Equation Governing groundwater flow, groundwater flowdirection, groundwater flowrates, groundwater dispersion

##### **Unit – III**

Concept of drainage basin, including watershed and groundwater basin. Aquifer systems and Groundwater Provinces of India; Hydrogeology of Alluvial aquifer, Arid aquifer, Hard rock aquifer/ Basaltic Aquifer, Himalayan aquifer, Coastal and wetland aquifer, Island aquifer.

##### **Unit – IV**

Well Hydraulics; Groundwater flow-An Overview; Darcy's law and its applications; Determination of permeability in laboratory and in field; Flow through aquifers; steady, unsteady and radial flow conditions; Effect of partial penetrating wells, well losses, specific capacity; Evaluation of aquifer parameters of confined, semi-confined and unconfined aquifers -Thiem, Thies, Jacob and Walton's methods; Yield characteristics of wells; Pumping tests- methods, data analysis and interpretation.

##### **Unit - V**

Role of remote sensing in groundwater exploration; Hydrogeomorphic and lineament mapping; Surface geophysical methods; Types of water wells and methods of construction. Site selection for groundwater exploration, Water well drilling techniques; Design, development, maintenance and revitalization of wells; Sub-surface geophysical methods.

## **Paper II: Groundwater Regime Monitoring and Assessment**

**Maximum Marks: 100**

### **Unit – I**

Water level monitoring; Water table and piezometric surface, Springs; Fluctuations of water table/Flow net analysis; Barometric and tidal effects; Representation of water level data -Water table contour; Hydrographs; statistics

### **Unit – II**

Ground Water Quality monitoring; Physical and chemical properties of water; Quality criteria and standards for different uses; Groundwater quality in different provinces in India; Groundwater contamination; natural (geogenic) and anthropogenic contaminants; Inland salinity, Saline water intrusion; governing principles, Use of Radioactive isotopes in hydrogeological studies; Collection of water sample and analysis; Presentation of water quality data - contours, point map, statistics

### **Unit – III**

History of Ground Water Assessment in India; Ground Water Estimation Methodology in Vogue i.e. GEC 2015; Ground Water Balance equation; Various inflow terms and their estimation; Various outflow terms including Base flow and their estimation; Estimation of Dynamic and In-storage Ground Water Resources of Unconfined, Confined and Semi-Confined Aquifers. Estimation of Stage of Ground Water Extraction and Categorization; Use of Tracers in Ground Water Studies; Natural and Artificial Tracers and their Application; Various Techniques used in Ground Water Studies to measure the parameters needed in the Assessment of Ground Water Resources.

### **Unit - IV**

Principles of Groundwater Management — supply side and demand side management, Concept of sustainable development of groundwater resources; Groundwater Issues and Challenges -Over-exploitation of groundwater, ground water issues in coastal areas; issues of ground water in mining areas, waterlogging in canal command areas; urban areas; water quality issues; Conjunctive use of surface and groundwater; Impact of Climate change on groundwater resources; Rainwater harvesting and managed aquifer recharge; Rainwater harvesting concept; Rainwater harvesting Methods; Managed aquifer recharge; Site identification, Source water assessment, Recycle and reuse; Recharge Methods; Induced recharge - aquifer – river interaction.

### **Unit – V**

Groundwater modelling; Analytical models, Mathematical models / Numerical models, Statistical / Stochastic models, Time series analysis, Mathematical models -case studies. Groundwater regulation, Groundwater ownership, constitutional provisions, Issues and challenges in groundwater legislation adoption. Groundwater legislation.

### **Lab Course I: Groundwater Occurrence, Movement, Distribution & Hydraulics**

**Maximum Marks: 50**

Rainfall data analysis, Runoff and baseflow estimation, Demarcation of watershed from drainage map, Determination of permeability in laboratory, Determination of well losses and aquifer losses and well efficiency using step drawdown test data, Determination of T using Theim solution, Determination of T and S values of confined aquifers using Theis and Jacob solutions, Determination of T and S values of semi-confined aquifers using Walton solution, Determination of T and S values of unconfined aquifers using Boulton solution, Determination of specific capacity using Slichter method, Determination of optimum yield using Saleem Romani method, Delineation of hydrogeomorphic units and lineaments using visual interpretation techniques, Application of VES for pinpointing a site for water well.

### **Lab Course 2: Groundwater Regime Monitoring and Assessment**

**Maximum Marks: 50**

Three point problem, Preparation of water table map, Delineation of ground water flow direction, Preparation of water level maps and preparation of fluctuation maps, Preparation of EC contour maps, point maps of fluoride, Piper trilinear diagram, US salinity diagram and Wilcox diagram with chemical parameters. Ground water resources estimation of a watershed using GEC 2015 methodology. Exercise on rainwater harvesting/ artificial recharge – estimation of available resource and selecting suitable methods. Preparation of ground water hydrographs.

### **Dissertation (Report + Presentation + Viva-voce)**

**Maximum marks: 200**

Dissertation is an essential component of the course. Every student has to carry out fieldwork (in continuation or in breaks) during the course. The candidate will be required to submit a field report for evaluation as a part of the examination. The candidate can choose a theme or a combination of themes, dissertation under the guidance of a Supervisor, as mentioned below:

1. Ground Water Data Collection Feasibility studies
2. Water quality data Collection, analysis and interpretation.
3. Well logs -lithological log, drill time log, geophysical logs
4. Pumping test, Infiltration test, Slug test, Discharge Measurement
5. Geophysical surveys
6. Water audit and Impact assessment
7. Socio-economic surveys – Unit draft, Crops yield and ground water usage, micro irrigation, water use efficiency.

The candidate will have to complete his fieldwork related to Project and the Dissertation thesis must be submitted within 30 days after the completion of theory examination.



**Recommended Textbooks:** Only the basic textbooks are mentioned here. The student is advised to consult Library and e-resources for in-depth knowledge.

1. C.F. Tolman (1937): Groundwater, McGraw Hill , New York and London.
2. D.K. Todd (1995): Groundwater Hydrology, John Wiley and Sons.
3. F.G. Driscoll (1988): Groundwater and Wells, UOP, Johnson Div.St.Paul. Min. USA.
4. H.M. Raghunath (1990): Groundwater, Wiley Eastern Ltd.
5. H.S. Nagabhushaniah (2001): Groundwater in Hydrosphere (Groundwater hydrology), CBS Publ.
6. K. R. Karanth (1989): Hydrogeology, Tata McGraw Hill Publ.
7. S.N. Davies and R.J.N. De Wiest (1966): Hydrogeology, John Wiley and Sons, New York
8. R. Allan Freeze and John A. Cherry (1979): Groundwater, Prentice-Hall, Inc. ISBN 0-13-365312-9

# SCHOOL OF STUDIES IN GEOLOGY & WRM

PT. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR

## SYLLABUS FOR

POST GRADUATE DIPLOMA IN REMOTE SENSING & GIS

IN COLLABORATION WITH

SCHOOL OF STUDIES IN GEOGRAPHY & CG COUNCIL OF SCIENCE & TECHNOLOGY

The **AIM** of the Course is capacity building & Research within the state of Chhattisgarh.

**OBJECTIVE OF THE COURSE** is to provide an opportunity for individuals to learn remote sensing & GIS for the benefit of their professional career; allow students to quickly gain RS & GIS knowledge and qualification and to add the credentials: to develop learner's research, analytical and problem solving skills.

### 1. COURSE STRUCTURE AND DURATION

The course shall comprise of four modules and the duration of the course will be of one year duration.

The details are as follows:

<b>Theory Paper</b>
Paper 1: Remote Sensing & Digital Image Processing
Paper 2: GIS, GPS, Digital Cartography & Surveying
Paper 3: Application of RS & GIS
<b>Practicals</b>
Lab Course 1: Image Processing
Lab Course 2: Digital Cartography & GIS
Lab Course 3: Application of RS & GIS
<b>Dissertation</b>
Field work + Project Report+ Viva Voce

## 2. SCHEME OF EXAMINATION

The total marks for the course shall be 600, including theory, practical and dissertation.

<b>Theory Paper</b>	<b>Maximum Marks</b>
Paper 1: Remote Sensing & Digital Image Processing	100
Paper 2: GIS, GPS, Digital Cartography & Surveying	100
Paper 3: Application of RS & GIS	100
<b>Practicals</b>	<b>Maximum Marks</b>
Lab Course 1: Image Processing	50
Lab Course 2: Digital Cartography & GIS	50
Lab Course 3: Application of RS & GIS	50
<b>Dissertation</b>	<b>Maximum Marks</b>
Field work (50) + Project Report (75) + Viva Voce (25)	150
<b>Grand Total</b>	<b>600</b>

## 3. SYLLABUS

### **PAPER 1: Remote Sensing & Digital Image Processing**

**Maximum Marks: 100**

#### **1.1 Fundamentals of Remote Sensing**

Concept and scope of Remote Sensing; characteristics of Remote Sensing; advantages and limitations; concept of Electromagnetic Radiation (EMR); atmospheric window; interaction of EMR with matter; spectral signatures; sources of energy; energy interaction in the atmosphere; energy interaction with earth surface; Remote Sensing scenario in Indian context

#### **1.2 Platform & Sensors**

Types of platform-ground, airborne and space borne; types of orbits; orbital characteristics; satellite basics: Kepler's law, launch vehicle, payload; types and characteristics of sensors; Resolution of sensors: spatial, spectral, temporal & radiometric; scale, mapping unit; false colour composite; specification of some popular satellites.

#### **1.3 Photogrammetry**

Historical development and fundamental of aerial photographs; types of aerial photographs; digital camera; components of aerial cameras; camera calibrations; photogrammetric applications & products; stereoscope: pocket & mirror; photographic overlap; image parallax; height determination from stereo-pairs; scale, geometry and ground coverage of aerial photographs; area calculation; flight planning; relief distortion; tilt distortion; ortho-rectification; Digital Photogrammetry, block adjustment; DEM; Ortho-mosaic.

#### **1.4 Image Interpretation**

Interpretation key; types of interpretation; spectral pattern recognition; spatial pattern recognition; temporal pattern recognition

#### **1.5 Digital Image processing**

Definition of digital image; sources of data; data formats; hardware & software consideration for DIP; sources of error in images; Geometric corrections: rectification, registration, geo-referencing & geo-coding; Resampling technique; radiometric correction; image enhancement; spatial filtering; band ratio; density slicing; principal component analysis; image fusion; ground truth collection for image classification; training verification; unsupervised & supervised classification; iso-data, K-mean; accuracy assessment; change detection analysis

### **PAPER 2: GIS, GPS, Digital Cartography & Surveying**

**Maximum Marks: 100**

#### **2.1 Fundamental of Geographic Information System**

Basic Concepts: definition of GIS, Components of GIS, Variables - points, lines, polygon, Functionality of GIS, Areas of GIS application, Advantage and Limitation of GIS; *GIS Data*: Spatial and Attribute Data, Information Organization and Data Structures - Raster and Vector data structures, Data file and database; *Creating GIS Database*: GIS Software's, file organization and formats, Advantages of Data base Management System. Conceptual implementation models, Hierarchical, Network, Relational models. RDBMS: components, concept, database schema, tables and relationships. Database design Normalization Geo-database, Rectification, Digitization; *GIS Data Input*: Nature and Source of data, Method of spatial data capture - Primary and Secondary, digitization and scanning method, Techniques and procedure for digitizing, Errors of Digitization, Attribute data capture; *Data Editing*: Detecting and correcting errors, Re-projection, Transformation and Generalization, Edge matching and Rubber sheeting, Topology, Conversion from Other Digital Sources.

#### **2.2 Remote Sensing Data and GIS Integration**

Introduction to different spheroid / ellipsoid systems with special reference to Everest and WGS-84 - Geometric Constants, Indian Geodetic Datum; Rectangular and Geographical Co-ordinate System - Conversion of latitudes and longitudes to linear distances, Coordinate Transformations, Geoidal parameters and their relationship.

#### **2.3 Global Positioning System (GPS)**

Introduction, Satellite constellation, GPS signals and data, Geo-positioning- Basic Concepts. NAVSTAR, GLONASS, Indian Regional Navigational Satellite System (IRNSS), Control Segment, Space Segments, User Segment, GPS Positioning Types- Absolute Positioning, Differential positioning; *GPS Surveying Methods and Accuracy*: Methods-Static & Rapid Static, Kinematic-Real Time Kinematic Survey- DGPS-GPS Data Processing and Accuracy, Factors Affecting GPS

Accuracy; *Reference Station*: Selection of Reference Station, Reference Station Equipment: GPS receiver, GPS antenna. Radio and its types, Radio Antenna; *Mobile Mapping and GPS Applications*: Mobile Mapping basic concepts and Applications, GPS Application in Surveying and Mapping.

## **2.4 Digital Cartography**

GIS and Digital Cartography: Concept of Digital Cartography, Advantages and Disadvantages of Digital Cartography; *Concept of Map Scales*: Defining Map, Projection Systems, Categories of maps, Map Scales; *Digital Mapping*: Cartographic Design Issues, Concept of Visual Variables, Map Lettering, Map Compilation, Generalization, Map Composition, Multivariate and Dynamic Mapping; Map Production; Visualization of geospatial data- 2D and 3D visualization; study & interpretation of SOI maps, cadastral maps & thematic maps.

## **2.5 Surveying**

Validation of Data: Importance of Field Survey, Collection of Ground Truth.

### **PAPER 3: APPLICATION OF RS & GIS**

**Maximum Marks: 100**

**3.1 Application of RS & GIS in Geology, Structural Evaluation and Geomorphology** Spectral properties of rocks and minerals, Reflectance Properties of Rocks, minerals in visible, NIR, MIR, SWIR, TIR and Microwave regions, Spectral reflection curves for important Rocks and Minerals. Digital image processing techniques for geological and lithological mapping. Significance of Geological structures, Identification of geological structures and structural mapping of Fold, Fault, Lineaments, Direction circular features, Intrusive rocks, rock exposure, Fractures and Joints. Digital image processing techniques for structural mapping. Image/photo characters for identification of various geomorphological features i.e. Tectonic landforms, Fluvial landforms, Denudational landforms, Volcanic landforms, Aeolian landforms, Coastal landforms.

**3.2 Application of RS & GIS in Water Resource, Agriculture & Forest** Study Data Sources for GIS in Water Resources, Agriculture and Forest. Spatial analysis in Hydrology, Digital Elevation Model Watershed and Stream Network Delineation, Terrain Analysis Using Digital Elevation Models, Height above Nearest Drainage (HAND) flood inundation mapping, LIDAR and flood plain mapping. Spectral behavior of leaf – Vegetation indices – NDVI, TVI, SVI, PCA, Biomass estimation – Estimation of terrestrial carbon assimilation in forests Forest type and density mapping and forest stock mapping using RS technique - factors for degradation of forests. Change detection in forests. Identification of crops - acreage estimation - production forecasting - pests and disease attacks through remote sensing - crop stress detection due to flood and drought - catchments and command area monitoring.

**3.3 Application of RS & GIS in Planning & Rural Development Study** Relevance of remotely sensed data for Urban & Regional Analysis and Planning - Identification of settlement features from aerial photo and

satellite images, Visual and digital analysis techniques, Concept of Scale and Resolution. Methodology for Regional Mapping and City Mapping, Base map preparation, Change Detection and mapping, Classification terminology - Urban fringe, CBD, Urban sprawl, Regional plan, Master plan, Detailed Development plan, Delineation of planning area. Sustainable development plans.

**3.4 Application of RS & GIS in Disaster/ Hazard Assessment Study** Risk assessment - Damage assessment – Land use planning and regulation for sustainable development, Vulnerability analysis of infrastructure and settlements - Pre-disaster and post-disaster planning for relief operations - Potential of GIS application in development planning and Disaster management plan

**3.5 Application of RS & GIS in Environmental Studies** Concept and Elements of EIA, Classification of environmental parameters, preparation of Environmental Base map; E I A Methodologies: Ad-hoc methods, matrix methods, Network method, Environmental Media Quality Index method, overlay methods, cost/Benefit Analysis. Impact of Developmental Activities and Land use on soil and ground, on Vegetation and wildlife. Impact prediction, Assessment of Impact, Identification and Incorporation of mitigation measures. E I A studies for Air and Biological environment. Environmental Audit: Types of environmental Audit, and preparation of Audit report.

### **Lab Course 1: Image Processing**

**Maximum Marks: 50**

Introduction to RS software; satellite image annotation; open source data downloading from various sites; export, import of files; conversion of file format; rectification; registration; creating region of interest; mosaicing; sub-setting; spectral response of different landcover object; image statistics & histogram; visual interpretation of aerial images, visual image interpretation of satellite imagery; interpretation of land use/landcover map; determination of photo scale; orientation of stereo model under stereoscope; map projection; image enhancement; filtering; image data fusion; change detection analysis; supervised & unsupervised classification; accuracy assessment; Ortho-rectification; DEM & Ortho-Image generation.

### **Lab Course 2: Digital Cartography & GIS**

**Maximum Marks: 50**

Georeferencing & projection; Managing Geo-database; geometric measurements tools & Changing Projection; creation of gdb, shapefile, feature class; Digitization: Point, Line, Polygon; Vector Editing, Data base creation, Managing Attribute Table, Thematic Maps; Select and Query in vector layers; Network, Neighborhood, Buffer, Proximity [thiessen polygon], Overlay, Intersection & Union; Topographic & Morphometric analysis: TIN, DEM, Contour & Isopleth generation; conversions and Topology; Spatial Analysis; GPS based field survey; plotting of GPS point & map preparation; geo-tagging

of photographs; Digital cartography: base map preparation, thematic map preparation; generation of 2D & 3D maps

### **Lab Course 3: Application of RS & GIS**

**Maximum Marks: 50**

Watershed delineation; Morphometric Analysis (DEM); surface water-bodies inventory; groundwater quality based on different parameters; irrigation ; agriculture land use; use of multi temporal satellite data; identification of crop and acreage estimation; vegetation indices for crop health & forecasting; plantation mapping; urban change detection, utility mapping, urban database creation; urban expansion; forest Fire Identification; forest type mapping; forest species mapping; forest density mapping; wildlife mapping; village map generation; cadastral map rectification; rural settlement mapping; rural road mapping; other rural facilities mapping and inventory; population study; flood zonation, drought assessment, deforestation, mining inventory; Literature review for dissertation. Word Processing, Referencing and Template preparation.

### **DISSERTATION**

**Maximum Marks: 150**

Dissertation is an essential component of the course. Every student will have to do 2 to 3 weeks of fieldwork (in continuation or in breaks). The candidate will be required to submit a field report for evaluation as a part of the examination. The candidate can choose a theme or a combination of themes in consultation with the assigned Supervisor.

The candidate will have to complete his fieldwork related to Project. The Dissertation thesis must be submitted within 30 days after the completion of theory examination.

**Recommended Textbooks:** Only the basic textbooks are mentioned here. The student is advised to consult Library and e-resources for in-depth knowledge.

1. Remote Sensing and Image Interpretation. Lillesand, TM and Kiefer, RW. John Willey and Sons, 2008.
2. Remote Sensing and GIS. B. Bhatta by Oxford Publishers 2015.
3. Introduction to Geographic Information System. Kang-Tsung Chang, McGraw-Hill 2015.
4. Concepts & Techniques of GIS. C. P. Lo Albert, K.W. Yongg, Prentice Hall (India) Publications.
5. Basics of Remote sensing & GIS. S. Kumar, Laxmi Publications.
6. James B. Campbell & Randolph H. Wynne. Introduction to Remote Sensing, The Guilford Press, 2011.
7. Textbook of Remote Sensing and Geographical Information systems. M. Anji Reddy, BS Publications, Hyderabad. 2011. ISBN: 81-7800-112-8.

8. Remote Sensing and GIS. A.M.Chandra and S.K. Gosh, Narosa Publishing Home, New Delhi 2009.
9. Introducing Digital Image Processing. John R. Jenson, Prentice Hall, New Jersey 1986.
10. Techniques for Image Processing and Classification in Remote Sensing. Robert A. Schowengerdt, 1984. ISBN 13: 9780126289800
11. Fundamentals of Remote sensing. George Joseph, 2005, 2nd edition, University Press Pvt, Ltd, Hyderabad.
12. Principles of Geographical Information Systems for Land Resources Assessment by P.A. Burrough
13. Elements of Photogrammetry by PAUL R. WOLF, 3rd edition, ISBN 007-123689-9
14. Introduction to Modern Photogrammetry (Paperback) by Edward M. Mikhail, James S. Bethel
15. Manual of Photogrammetry – American Society of Photogrammetry By ALBERT.D
16. Aerial Photographic Interpretation by D. R. Lueder, McGraw-Hill Companies
17. Photogrammetry- Vol I by Krauss, J., - Springer – Verlag Publications
18. Photogrammetry 3rd Edition by Moffitt, Francis H. & Mikhail, Edward M., - Harper and RowPublishers.
19. Principles and Applications of Photo Geology By Shiv Pandey
20. John R. Jenson, .Introductory Digital Image Processing., Prentice Hall Series, 1996.
21. John A. Richards, Springer-Verlag, .Remote Sensing Digital Image Analysis. 1999.
22. Rafael C. Gonzalez, .Digital Image Processing (2nd Edition)., Prentice Hall, 2002.
23. Gopi, “Advanced surveying: Total station, GIS and Remote Sensing”, Pearson EducationIndia, 2007.
24. Borden D. Dent, Jeffrey Troguson, Thomas W. Hodler, “Cartography: Thematic map Design”,McGraw-Hill Higher Education, 2008.
25. Environmental Impact Assessment Methodologies, by Y. Anjaneyulu, B.S. Publication,Sultan Bazar, Hyderabad.
26. Environmental Science and Engineering, by J. Glynn and Gary W. Hein Ke – PrenticeHall Publishers.
27. Burnside, C.D., Electromagnetic distance measurement, Crosby Lockwood staples, U.K., 1971.
28. Rueger, J.M., Electronic distance Measurement, Springer - Verlag,Berlin, 1990.
29. Laurila, S.H., Electronic Surveying in Practice, John Wiley& Sons, Inc, 1983.
30. Soastamoinen, J.J., Surveyor's Guide to electro-magnetic distanceMeasurement, Adam Hilger Ltd., 1967.
31. SantheeshGopi., Global Positioning System – Principles andApplications, Tata McGraw-Hill Publishing Company Limited, NewDelhi, 2005.
32. Seeber, G., Satellite Geodesy, Walter de Gruyter, Berlin, 1993.
33. Alfred Leick, GPS Satellite surveying, John Wiley and Sons,1995.
34. Hofmann Wellenhof, B. Lichtenegger, H. and Collins, J., GlobalPositioning System, SorinQer - Verlag, New York, 1994.
35. Drury, S.A. (2001): Image Interpretation in Geology, Allen and Unwin.
36. Halis, J.R. (1983): Applied Geomorphology.
37. Holmes,A.(1992): Holmes Principles of Physical Geology, Edited by P. McL. D. Duff. Chapman and Hall.



# School of Studies in Geology & WRM

Pt. Ravishankar Shukla University, Raipur, C. G.

## Syllabus for M. Phil (Geology) Examination 2017-18

The duration of M. Phil. Course in Geology shall be of One Year. The course consists of Two Theory Papers, One Practical and the dissertation. The following shall be the Scheme of Examination.

### Scheme of Examination

S. No.	Theory Paper	Title of Paper	Marks Allocation
1.	I	Research Methodology in Geology	100
2.	II	Advanced Research in Geology	100
		(Any one of the Following Courses)	
		A. Hydrogeology	
		B. Applied Sedimentology	
		C. Igneous and Metamorphic Petrology	
		D. Mineral Deposits	
		E. Mineral Exploration	
3.		Lab Course in Geology	100
		(Based on theory Papers as given and opted above)	
		Practical Exam - 70	
		Viva-voce - 20	
		Practical Record - 10	
		Seminar (Based on Theory)	50
4.		Dissertation	
		a. Seminar based on dissertation	50
		b. Script evaluation	75
		c. Viva-voce examination	25
			150
		<b><u>Grand Total</u></b>	<b><u>500</u></b>

## **Paper I – RESEARCH METHODOLOGY IN GEOLOGY**

**M. M. - 100**

### **Unit – I**

Research methodology – An overview. Scientific hypothesis, Model, Theory and Philosophy of Research methodology in context to Earth Sciences. Facts and Law Formulating Hypothesis. Selection and formulation of research problem. Meaning and need of Research design. Field methods in Geology: Scale, Topographic map, Bearing. Attitudes of the planar and linear features and their standard notations.

### **Unit – II**

Methods of data collection. Primary and Secondary data. Observations and tests.

Precision and accuracy in geological data generation.

Statistical techniques for processing and analysis of data: Probability, Normal distribution, Binomial and Poisson distribution. Sampling – simple random sampling. Systematic/ Grid sampling stratified and cluster sampling. Sampling estimates – Central tendency parameters – mean, median, mode, variance, standard deviation, skewness, kurtosis. Null Hypothesis. Student's t Test, chi square Test. Computer application in Geology. Analysis, interpretation and drawing inferences.

### **Unit – III**

Microscopic techniques. Staining techniques for distinguishing Calcite-Dolomite, K- Feldspar- Plagioclase-Cordierite. Techniques in photomicrography. Application of x-ray diffraction data in determination of composition of Olivine and cordierite. NORM calculation and interpretation of ACF, AKF diagrams.

### **Unit – IV**

Computer Applications: Word processing software. Application of statistical and graphical software – Microsoft Excel and Harvard Graphics. Report Writing: Selection of chapters, Methods of citing References.

## Paper II – ADVANCED RESEARCH IN GEOLOGY

### Course A – HYDROGEOLOGY

M. M. – 100

#### Section A.

1. Aquifers and their types. Determination of aquifer parameters.
2. Laws of ground water flow. Its application and limitations.
3. Well hydraulics – steady, unsteady and radial flow to well. Boundary effect on unsteady well flow.
4. Leaky aquifer. Image wells and hydraulics of open wells.
5. Well Types and method of water well drilling.
6. Design and construction of Dug well and Tube wells.
7. Quality of ground water and its applications.

#### Section B.

8. Ground water exploration– geological and hydrogeological..
9. Geophysical methods of ground water exploration – resistivity survey and Seismic survey.
10. Application of remote sensing in ground water studies.
11. Ground water development and management, water balance studies.
12. Water logging and artificial recharge.
13. Groundwater pollution.
14. Occurrence and potentials of ground water in various geologic provinces of India.

### Course B - APPLIED SEDIMENTOLOGY

M.M. - 100

#### Section A.

1. Factors controlling the formation and deposition of different types of sediments.
2. Cyclic sedimentation, patterns and interpretation.
3. Classification, petrology and petrogenesis of limestone and dolomites.
4. Classification, petrology and paragenesis of detrital sedimentary rocks.
5. Application of grain shape-size analysis of sediments to environment interpretation.
8. Implications of diagenesis of carbonate and clastic sediments acting as reservoir rocks for oil and gas.

#### Section B.

9. Role of Sedimentological framework in understanding coal gasification and coal bed methane.
10. Mineral deposits associated with clastic sedimentary rocks.
11. Mineral deposits associated with non-clastic sedimentary rocks.
12. Plate tectonics-sedimentation and mineral deposits
13. Regional geology of Archaean rocks of India and related mineral deposits.
14. Regional geology of Precambrian rocks of India and related mineral deposits.

Section A.

1. The composition and mineralogy of the mantle.
2. The structure, petrology and composition of the Earth crust.
3. Meteorites: classification, petrography, bulk chemical characteristics and origin.
4. Properties, origin and environments of magma generation.
5. Composition and kinetic of magma: viscosity, formation of crystals in liquids, Vesiculation, Causes of boiling and cooling, role of volatiles.
6. Geochemical affinity substitution of trace elements for major elements, partition coefficient.
7. Ophiolite complexes, calc alkaline and tholeiite groups, plutonic and volcanic rocks of subduction zone.

Section B.

8. Plate tectonics: Tectonics magmatism and regional metamorphic belts.
9. Metamorphic structure of continental crust and evolution of the earth.
10. Ocean floor metamorphism and its significance.
11. Kinetic of metamorphic minerals reaction. Concept of Rate theory. Direct experiments, stability field of minerals.
12. Basic principles of isotopes geology and its application in petrology.
13. Experimental and theoretical study of metamorphic systems.
14. Chemical fractionation and distribution of elements during metamorphism zoning (Thomson Model)

**Course D - MINERAL DEPOSITS**

Section A.

1. Environment of mineral deposition.
2. Metallogenic processes.
3. Metallogenic opaque and province.
4. Ore texture, structure and mineral Paragenesis.
5. Geo-thermometry and isotopic studies of ore minerals.
6. Mineral deposit associate with plate margins.
7. Mineralogy, geochemistry and genesis of iron and manganese.

Section B.

8. Mineralogy, Geochemistry and genesis of bauxite.
9. Geochemistry and genesis of Pegmatite deposits.
10. Mineralogy, Geochemistry and genesis of Base metal deposits including Au and Ag.
11. Mineralogy, Geochemistry and genesis of Cr and Ni deposits.
12. Mode of Occurrence, distribution and origin of radioactive mineral deposits.
13. Mode of Occurrence, distribution, mineralogy and genesis of recent polymetallic nodules.
14. Distribution, origin of non-metallic mineral deposits: Phosphorites, Beryl, Magnetite, fluorite, Diamond, Asbestos, and Graphite.

Section A.

1. Explorations programs – objective of exploration pattern of exploration programs. Economics of exploration programs. Use of mathematical modeling in exploration.
2. Surface and subsurface exploration method, collection and evaluation of existing data reorganization.
3. Exploratory drilling - methods, pattern and sequence, logging of drill hole data, planning of exploration drilling holes.
4. Sampling ore bodies and estimating reserves.
5. Basic characteristics and application of various geo physical surveys and exploration of mineral deposits.
6. Basic characteristic method and application of exploration geochemistry and geo botany to mineral deposits.
7. Application of remote sensing in minerals explorations.

Section B.

8. Statistical analysis and computer application to mineral exploration.
9. Mineral economics and mineral processing as applied to planning, development and management of exploration and mining.
10. Mineral property evaluation. Objective of evaluation and condition of evaluation, method of evaluation.
11. Environmental effect of mineral resources, development, conservation and substitution,
12. Impact of mineral processing and mining activities on the environment, mining hazard, pollution of atmosphere, and pollution due to mineral based industries.
13. Planning and management of land use, industrial solid waste deposit and management, environment guidelines for mineral exploration.
14. Study of selected Indian case histories of exploration of iron, manganese, bauxite, copper, lead – zinc, gold, mica, coal and phosphate deposits.

## PRACTICAL EXAMINATION

M.M. - 100

### Paper I – RESEARCH METHODOLOGY IN GEOLOGY

- A.
1. Interpretation of geological maps.
  2. Study of rocks in hand specimen and thin sections and interpretation of genesis of rocks.
  3. Location of metamorphic facies on a P-T diagram.
  4. Plotting of different rock groups on ACF, AKF & AFM diagram.
  7. Problems on:
    1. Determination of background threshold and anomaly.
    2. Anomaly delineation coefficient.
    3. Correlation coefficients.
  8. Heavy mineral studies.
  9. Study of sedimentary structure in hand specimens and their significance.

### Paper II – ADVANCED RESEARCH IN GEOLOGY

#### Group A – HYDROGEOLOGY

1. Evaluation of morphometric parameters from drainage maps.
2. Problems on formation characteristic evaluation – porosity, Sp. Yield, Sp. Retention.
3. Preparation and analysis of water table contour maps.
4. Numerical problems on formation constant evaluation – transmissivity and storability.
5. Interpretation of ground water occurrence from surface geophysical survey data-Receptivity method.
6. Preparation of watershed maps from the satellite imageries and delineation of ground water potential zones.
7. Interpretation of water quality from chemical analysis data.

#### Group B – APPLIED SEDIMENTOLOGY

1. Graphic representation of textural data and its interpretation.
2. Study of texture and petrogenesis of sandstone.
3. Study of texture and petrogenesis of limestone.
4. Study of sedimentary structure in hand specimen and their significance.
5. Study and interpretation of mineral deposits associated with sedimentary rocks.

#### Group C – IGNEOUS AND METAMORPHIC PETROLOGY

1. Study of texture and structure and determination of mineral Paragenesis in igneous and metamorphic rocks.
2. Calculation of volumetric modal percentage of individual mineral present in the rocks.
3. Preparation of different type of diagrams and their interpretation from the given chemical data.
4. Representation of metamorphic rocks in the ACF, AFM, AKF, AFM etc. diagrams and their interpretation.
5. Study of the geographical distribution and significant criteria of important igneous and metamorphic rocks of India.
6. Megascopic and microscopic study of important igneous and metamorphic rocks of India.

#### Group D – MINERAL DEPOSITS

1. Study of ores (Megascopic and microscopic) and their geographic distribution.
2. Study of geological and economic significance of some of the metallic and non- metallic deposits of India.
  - A Gondwana coal field- Raniganj, Jharia.
  - B Kolar Gold Field
  - C Panna Diamond field
  - D Zawar Pb-zn Deposits
  - E Oil field/ Petroliferous basin of India
  - F Copper Deposits – Mosabani, Khetri, Malanjkhand.
3. Study of the mineral deposits associated with plate Tectonics.
4. Study of geologic, economic significance and geographic distribution of raw materials used in the following mineral based industries: (a) Iron & Steel (b) Cement (c) Aluminum (d) Fertilizers
5. Geology and geographic distribution of radioactive minerals and the location of the processing unite in India.
6. Calculation of grade assay and reserve of mineral deposits.

#### Group E – MINERAL EXPLORATION

1. Interpretation of subsurface geology from geological data.
2. Calculation of ore reserves from given geological map and data.
3. Calculation of grade and averaging of assay value and demarcation of ore bearing zones
4. Preparation and interpretation of geochemical anomaly and maps.
5. Resistivity survey and interpretation of resistivity data.
6. Preparation and interpretation of gravity and magnetic anomaly maps.
7. Preparation of geological maps from aerial photographs.
8. Preparation of geological maps and lineaments maps from satellite imagery.
9. Mineragraphic studies of ore samples including study of ore texture and structure and determination of mineral Paragenesis.
10. Study of mineral beneficiation flow sheets of common ores (Cu, Pb, Zn, Mn)

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**School of Studies in Geology & WRM**  
**Pt. Ravishankar Shukla University, Raipur, C. G.**

Syllabus for Ph. D. Course Work in  
Geology Examination 2017-18

The Ph. D. Course in Geology shall be of six months. This course shall have Two Papers. Paper- I is theory paper and Paper -II is project course work Each paper is of 100 marks. Theory paper will be of three hours duration. In Paper –II, 40 % marks will be assigned to seminar which will be evaluated by Departmental Research Committee and 60 % marks will be assigned to project work which will be evaluated by external and internal examiners jointly.

**Scheme of Examination**

| <b>Paper</b> | <b>Title of the Paper</b>                                                         | <b>Marks allotted</b> |
|--------------|-----------------------------------------------------------------------------------|-----------------------|
| Paper-I      | Research Methodology, Quantitative Methods and Computer applications              | 100 Marks             |
| Paper-II     | Review of Literature concerning the topic of research and Seminar/Project Report. | 100 Marks             |
|              | (a) Seminar                                                                       | 40 marks              |
|              | (b) Project work and Viva-voce                                                    | 60 Marks              |

**Paper – I: Research Methodology, Quantitative Methods and Computer applications**

Research methodology – An overview. Scientific hypothesis. Theory and philosophy of Research Methodology in context to Earth Sciences. Facts and Laws Formulating Hypothesis. Selection and formulation of research problem. Meaning and need of Research design.

Theory of Sampling / field methods, Parametric Analysis and Quantitative and qualitative methods in Geosciences. Methods of data collection. Primary and Secondary data. Observations and tests.

Precision and accuracy in geological data generation. Statistical techniques for processing and analysis of data: Probability, Normal distribution, Binomial and Poisson distribution. Sampling estimates – central tendency parameters. Null hypothesis – student t test and chi square test.

Computer applications in numerical data processing. Microscopic techniques. Staining techniques for distinguishing Calcite-Dolomite, K- Feldspar-



Plagioclase-Cordierite. Techniques in photomicrography. . NORM calculation and interpretation of ACF, AKF diagrams.  
Hydrogeology, Theory and Methods.

**Paper - II Review of Literature concerning the topic of research and Seminar/Project Report.**

Literature Review/Project/Assignment work on any current topic of demand in the stream decided by the Supervisor(s) and or DRC. Presentation of report and work.

- (a) Seminar presentation
- (b) Project work and Viva-voce

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**एम.ए.पूर्व इतिहास (M.A. Previous History)**  
**प्रथम एवं द्वितीय सेमेस्टर (First & Second Semester)**  
**सत्र 2018-19 (Session 2018-19)**

(जुलाई 2018 से प्रारंभ )

**टीप :-** तीन अनिवार्य प्रश्न पत्रों के अतिरिक्त परीक्षार्थियों को कोई एक वैकल्पिक प्रश्न पत्र का चयन करना होगा। प्रत्येक प्रश्न पत्र 100-100 अंकों का होगा। 100 अंकों में 80 अंक सैद्धांतिक एवं 20 अंक आंतरिक मूल्यांकन के होंगे। सभी प्रश्न पत्रों के 5-5 क्रेडिट हैं।

**प्रथम सेमेस्टर (First semester)**

| प्रश्न पत्र   | प्रश्न पत्र का नाम                                                                                                                       | कोड संख्या | पूर्णांक | सैद्धांतिक |    |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|------------|----|
| प्रथम<br>I    | इतिहास पद्धति (अनिवार्य)<br>Historiography (Compulsory)                                                                                  | 0370-I     | 100      | 80         | 20 |
| द्वितीय<br>II | आधुनिक विश्व 1800-1920 ई. (अनिवार्य)<br>Modern world 1800-1920<br>A.D.(Compulsory)                                                       | 0371-I     | 100      | 80         | 20 |
| तृतीय<br>III  | प्राचीन एवं मध्यकालीन छत्तीसगढ़ (अनिवार्य)<br>Ancient and Medieval<br>Chhattisgarh (Compulsory)                                          | 0372-I     | 100      | 80         | 20 |
| चतुर्थ<br>IV  | ग्रेट ब्रिटेन का इतिहास 1815-1885 ई.<br>(वैकल्पिक-अ)<br>History of Great Britain 1815-<br>1885 A.D. (Optional-A)                         | 0373-I     | 100      | 80         | 20 |
| चतुर्थ<br>IV  | भारतीय इतिहास में नारी-<br>प्राचीन एवं मध्यकालीन (वैकल्पिक-ब)<br>Women in Indian History in<br>Ancient & Medieval Period<br>(Optional-B) | 0377-I     | 100      | 80         | 20 |

*Signature*

द्वितीय सेमेस्टर (Second semester)

| प्रश्न पत्र   | प्रश्न पत्र का नाम                                                                            | कोड संख्या | पूर्णांक | सैद्धांतिक | आंतरिक मूल्यांकन |
|---------------|-----------------------------------------------------------------------------------------------|------------|----------|------------|------------------|
| पंचम<br>V     | इतिहास लेखन (अनिवार्य)<br>Historiography (Compulsory)                                         | 0370-II    | 100      | 80         | 20               |
| षष्ठम<br>VI   | समकालीन विश्व 1920-2000 ई. (अनिवार्य)<br>Contemporary world<br>1920-2000 A.D. (Compulsory)    | 0371-II    | 100      | 80         | 20               |
| सप्तम<br>VII  | आधुनिक छत्तीसगढ़ (अनिवार्य)<br>Modern Chhattisgarh<br>(Compulsory)                            | 0372-II    | 100      | 80         | 20               |
| अष्टम<br>VIII | आधुनिक इंग्लैण्ड 1885-1956 ई.<br>(वैकल्पिक-अ)<br>Modern England 1885-1956A.D.<br>(Optional-A) | 0373-II    | 100      | 80         | 20               |
| अष्टम<br>VIII | आधुनिक भारत में नारी (वैकल्पिक-ब)<br>Women in Modern India<br>(Optional-B)                    | 0377-II    | 100      | 80         | 20               |
|               |                                                                                               |            |          |            |                  |

टीप -उपरोक्त वैकल्पिक प्रश्न पत्रों अ एवं ब में से कोई एक का चयन करना होगा।

सत्र 2018-19 (जुलाई 2018 से प्रारंभ )

एम.ए.पूर्व इतिहास, प्रथम सेमेस्टर (M.A.Previous History, 1<sup>st</sup> Semester )

प्रथम-प्रश्न पत्र (अनिवार्य) ( First Paper- Compulsory)

इतिहास पद्धति (Historiography)

(पेपर कोड-0370-1) (Paper Code - 0370 - 1)

इकाई - 1

1. इतिहास का अर्थ एवं परिभाषा
2. इतिहास का स्वरूप
3. इतिहास विज्ञान एवं कला के रूप में
4. इतिहास के प्रकार-सामाजिक,आर्थिक,राजनीतिक,क्षेत्रीय

इकाई - 2

5. इतिहास का अन्य सभी सामाजिक विज्ञान विषयों के साथ संबंध-  
भूगोल,राजनीति शास्त्र, अर्थशास्त्र,समाजशास्त्र,
6. इतिहास का साहित्य के साथ संबंध
7. इतिहास में तथ्य
8. तथ्यों की व्याख्या

इकाई - 3

9. इतिहास के उपकरण-काल,स्थान,घटना,मानव
10. इतिहास में कारण एवं नियतिवाद
11. इतिहास में वस्तुनिष्ठता
12. इतिहास में पूर्वाग्रह

इकाई - 4

13. इतिहास का चक्रवादी सिद्धांत
14. इतिहास का समाज शास्त्रीय सिद्धांत
15. इतिहास का आदर्शवादी सिद्धांत
16. इतिहास का तुलनात्मक सिद्धांत

इकाई - 5

17. इतिहास का आलोचनात्मक सिद्धांत
18. इतिहास का भौतिकवादी सिद्धांत
19. इतिहास का सापेक्षवादी सिद्धांत
20. इतिहासवाद



संदर्भ ग्रंथ :

- (1) झारखण्ड चौबे – इतिहास दर्शन
- (2) के.एल.खुराना एवं आर.के.बंसल – इतिहास लेखन, धारणाएं तथा पद्धतियां
- (3) परमानन्द सिंह – इतिहास दर्शन
- (4) प्रो.राधेशरण – इतिहास पद्धति, इतिहास लेखन
- (5) गोविन्द चन्द्रपांडे – इतिहास स्वरूप एवं सिद्धांत
- (6) ब्रजेश कुमार श्रीवास्तव – इतिहास लेखन : अवधारणा, विधाएं एवं साधन
- (7) E.H.Carr - What is History
- (8) R.G. Collingwood - The Idea of History
- (9) बुद्ध प्रकाश – इतिहास दर्शन
- (10) बुद्ध प्रकाश – इतिहास दर्शन उद्देश्य एवं विधि
- (11) मानिक लाल गुप्ता – इतिहास—स्वरूप, अवधारणाएं एवं उपयोगिता
- (12) रामकुमार बेहार, ऋषिराज पांडेय – इतिहास पद्धति एवं इतिहास लेखन
- (13) कौलेश्वर राय – इतिहास दर्शन
- (14) Erich Kahler - The Meaning of History
- (15) H.S. Commager - History purpose and Methods
- (16) सत्यनारायण दुबे शरतेन्दु – इतिहास दर्शन (चिंतन) एवं लेखन



सत्र 2018-19 (जुलाई 2018से प्रारंभ)

एम.ए.पूर्व इतिहास, प्रथम सेमेस्टर (M.A.Previous History, 1<sup>st</sup> Semester.)

द्वितीय-प्रश्न पत्र (अनिवार्य) (Second- Paper, Compulsory)

आधुनिक विश्व 1800-1920 ई. (Modern World 1800-1920 A.D.)

(पेपर कोड-0371-I) (Paper Code - 0371 - I)

इकाई - 1

1. विश्व में पूंजीवाद के विकास की अवधारणा
2. साम्राज्यवाद का विकास-इंग्लैंड और फ्रांस में
3. साम्राज्यवाद का विकास-जर्मनी और जापान में
4. इंग्लैंड में उदारवाद का विकास

इकाई - 2

5. बिस्मार्क की आंतरिक एवं विदेश नीति
6. कैसर विलियम द्वितीय की विश्व राजनीति
7. 1900-1910 तक अंतर्राष्ट्रीय संधियां
8. 1912 तक पूर्वी समस्या-बर्लिन कांग्रेस

इकाई - 3

9. युवा तुर्क आंदोलन
10. प्रथम एवं द्वितीय बाल्कन युद्ध एवं प्रभाव
11. प्रथम विश्वयुद्ध कारण एवं घटनाएं
12. प्रथम विश्वयुद्ध परिणाम

इकाई - 4

13. पेरिस की शांति सम्मेलन एवं वर्साय की संधि
14. विश्व में समाजवाद का विकास
15. 1917 की रूसी क्रांति
16. बोलशैविक क्रांति एवं लेनिन की आर्थिक नीति

इकाई - 5

17. राष्ट्रसंघ संगठन
18. राष्ट्रसंघ की उपलब्धियां एवं असफलताएं
19. प्रथम विश्वयुद्ध के पश्चात् विश्व आर्थिक मंदी का उदय
20. न्यूडील



संदर्भ ग्रंथ :

- |                                      |                                                   |
|--------------------------------------|---------------------------------------------------|
| (1) दीनानाथ वर्मा                    | - आधुनिक विश्व का इतिहास                          |
| (2) के.एल.खुराना एवं शर्मा           | - विश्व का इतिहास                                 |
| (3) विनाके                           | - सुदूरपूर्व का इतिहास                            |
| (4) H.G.Wells                        | - World History                                   |
| (5) Moon & Parker -                  | Imperialism & World Politics                      |
| (6) मथुरालाल शर्मा                   | - आधुनिक यूरोप                                    |
| (7) कालूराम शर्मा                    | - आधुनिक विश्व का इतिहास                          |
| (8) केटेलबी                          | - आधुनिक यूरोप (1815 से 1919)                     |
| (9) देवेन्द्र सिंह चौहान             | - आधुनिक यूरोप (1815 से 1919)                     |
| (10) सत्यकेतु विद्यालंकार            | - एशिया का इतिहास                                 |
| (11) जार्ज बर्नादसकी                 | - रूस का इतिहास                                   |
| (12) B.V. Rao                        | - History of Modern world                         |
| (13) D.N.Ghosh                       | - The History of Europe                           |
| (14) B.R.Gokhale                     | - Modern Europe                                   |
| (15) डॉ.मथुरालाल शर्मा               | - आधुनिक विश्व                                    |
| (16) विपिन बिहारी सिन्हा             | - आधुनिक विश्व                                    |
| (17) दीनानाथ वर्मा एवं शिवकुमार सिंह | - विश्व इतिहास का सर्वेक्षण                       |
| (18) जैन एवं माथुर                   | - आधुनिक विश्व                                    |
| (19) डॉ.एस.आर. वर्मा                 | - आधुनिक विश्व का इतिहास                          |
| (20) मानिक लाल गुप्ता                | - विश्व का इतिहास                                 |
| (21) इंदिरा अर्जुन देव               | - समकालीन विश्व का इतिहास (1890-2008)             |
| (22) वी.एन. लुणिया                   | - आधुनिक पश्चात्य इतिहास की प्रमुख धाराएं (भाग-2) |
| (23) कौलेश्वर राय                    | - आधुनिक एशिया (1839-1949)                        |
| (24) कौलेश्वर राय                    | - आधुनिक यूरोप (1789-1945)                        |

*mml*

सत्र 2018-19 (जुलाई 2018 से प्रारंभ)

एम.ए.पूर्व इतिहास, प्रथम सेमेस्टर (M.A. Previous History, I<sup>st</sup>Semester)

तृतीय-प्रश्न पत्र,(अनिवार्य) (Third Paper- Compulsory)

प्राचीन एवं मध्यकालीन छत्तीसगढ़ (Ancient & Medieval Chhattisgarh)

(पेपर कोड-0372-1) (Paper Code - 0372 - 1)

इकाई - 1

1. छत्तीसगढ़ का परिचय एवं भौगोलिक स्थिति
2. छत्तीसगढ़ का नामकरण
3. छत्तीसगढ़ का जनजीवन
4. प्राचीन छत्तीसगढ़-मौर्य वंश के पूर्व तक

इकाई - 2

5. छत्तीसगढ़ में मौर्यकालीन एवं गुप्तकालीन छत्तीसगढ़
6. छत्तीसगढ़ में सातवाहनों का प्रभाव
7. क्षेत्रीय राजवंश-नलवंश, राजर्षितुल्य कुल वंश, शरभपुरीय वंश
8. पाण्डु वंश, छिन्दकनाग वंश, फणिनाग वंश

इकाई - 3

9. छत्तीसगढ़ में कलचुरियों का आगमन
10. छत्तीसगढ़ में कलचुरि वंश रत्नदेव से मोहन सिंह तक
11. कलचुरि कालीन शासन व्यवस्था
12. कलचुरि कालीन आर्थिक दशा

इकाई - 4

13. कलचुरि कालीन सामाजिक एवं सांस्कृतिक दशा
14. कलचुरि कालीन स्थापत्य
15. छत्तीसगढ़ में मराठा शासन - बिंबाजी एवं उनका प्रशासन
16. छत्तीसगढ़ में मराठों की सूबा शासन व्यवस्था

इकाई - 5

17. रघुजी तृतीय
18. मराठा कालीन छत्तीसगढ़ की आर्थिक दशा
19. मराठा कालीन छत्तीसगढ़ की सामाजिक एवं सांस्कृतिक दशा
20. ब्रिटिश नियंत्रण काल





संदर्भ ग्रंथ :

- (1) प्यारेलाल गुप्त – प्राचीन छत्तीसगढ़
- (2) पी.एल. मिश्र – दक्षिण कोशल का प्राचीन इतिहास
- (3) पी.एल. मिश्र – मराठाकालीन छत्तीसगढ़
- (4) भगवान सिंह वर्मा – छत्तीसगढ़ का इतिहास
- (5) राम कुमार बेहार – छत्तीसगढ़ का इतिहास
- (6) एल.एस. निगम – दक्षिण कोशल का इतिहास
- (7) मदनलाल गुप्ता – छत्तीसगढ़ दिग्दर्शन भाग 1, भाग 2
- (8) जे.आर. वाल्यानी एवं वासुदेव साहसी – छत्तीसगढ़ का राजनीतिक एवं सांस्कृतिक इतिहास
- (9) सुरेश चंद्र शुक्ल – छत्तीसगढ़ का समग्र अध्ययन
- (10) ऋषिराज पांडेय – छत्तीसगढ़ (दक्षिण कोशल के कल्युरि)
- (11) व्ही.व्ही. मिराशी – कल्युरि नरेश और उनका काल
- (12) शांता शुक्ला – छत्तीसगढ़ का सामाजिक एवं आर्थिक इतिहास



सत्र 2018-19 (जुलाई 2018 से प्रारंभ)  
एम.ए.पूर्व इतिहास, प्रथम सेमेस्टर (M.A. Previous History, 1<sup>st</sup> Semester)  
चतुर्थ-प्रश्न पत्र (वैकल्पिक-अ) (Fourth Paper, Optional - A)  
ग्रेट ब्रिटेन का इतिहास (1815 से 1885 ई) (History of Great Britain 1815-1885A.D.)  
(पेपर कोड-0373-1) (Paper Code - 0373 - 1)

इकाई - 1

1. 1815 से 1822 तक आंतरिक समस्याएं
2. 1822 से 1830 तक इंग्लैंड की आंतरिक स्थिति
3. कैसलरे की विदेश नीति
4. केंनिंग की विदेश नीति

इकाई - 2

5. ब्रिटेन में उदारवाद का उदय
6. ब्रिटेन में उदारवाद के विकास के कारण
7. 1832 का सुधार अधिनियम
8. 1830 से 1841 तक अन्य सुधार

इकाई - 3

9. चार्टिस्ट आंदोलन
10. ग्रेट ब्रिटेन की विदेश नीति (1830-1841)
11. सर राबर्ट पील
12. लार्ड जॉन रसेल

इकाई - 4

13. लार्ड पामस्टन
14. 1867 का सुधार अधिनियम
15. बेंजामिन डिजरेली - विदेश नीति
16. नवीन टोरीवाद

इकाई - 5

17. ग्रेट ब्रिटेन और मुक्त व्यापार
18. ग्रेट ब्रिटेन और पूर्वी समस्या (1828-1878)
19. ब्रिटिश साम्राज्यवाद (1880 तक)
20. 1884 तथा 1885 के संसदीय सुधार

संदर्भ ग्रंथ :

- |                         |                                     |
|-------------------------|-------------------------------------|
| (1) एल.पी. शर्मा        | - इंग्लैंड का इतिहास                |
| (2) विद्याधर महाजन      | - इंग्लैंड का इतिहास                |
| (3) J.A.R.Marriott      | - Modern England                    |
| (4) G.M.Trevelyan       | - Social History of England         |
| (5) Ramsay Muir         | - History of England                |
| (6) बिपीन बिहारी सिन्हा | - आधुनिक ग्रेट ब्रिटेन              |
| (7) मेरियट              | - आधुनिक इंग्लैंड का इतिहास         |
| (8) रामकिशोर पाण्डेय    | - आधुनिक इंग्लैंड का इतिहास         |
| (9) Maitland            | - Constitutional History of England |

*Muir*

सत्र 2018-19 ( जुलाई 2018 से प्रारंभ)  
एम.ए.पूर्व इतिहास ,प्रथम सेमेस्टर (M.A. Previous History .1<sup>st</sup> Semester)  
चतुर्थ-प्रश्न पत्र (वैकल्पिक- ब) (Fourth Paper ,Optional - B)  
भारतीय इतिहास में नारी-प्राचीन एवं मध्यकालीन  
(Women in Indian History - Ancient & Medieval Period)  
(पेपर कोड-0377-1) (Paper Code - 0377 - I)

इकाई - 1

1. नारी अध्ययन की विचार धाराएं- उदारवादी, मार्क्सवादी, मनोवैज्ञानिक
2. नारी अध्ययन संबंधी स्रोत-ऐतिहासिक स्रोत
3. नारी अध्ययन की स्रोत गैर अभिलेखागारीय
4. नारी अध्ययन का महत्व एवं उपयोगिता

इकाई - 2

5. वैदिक साहित्य एवं महाकाव्यों में नारी चित्रण
6. मौर्य एवं मौर्योत्तर काल में नारी की स्थिति
7. गुप्त एवं गुप्तोत्तर काल में नारी की स्थिति
8. राजपूत काल में नारी की स्थिति

इकाई - 3

9. बौद्ध धर्म में महिलाओं की स्थिति
10. जैन धर्म में महिलाओं की स्थिति
11. इस्लाम में महिलाओं की स्थिति
12. सिक्ख धर्म में महिलाओं की स्थिति

इकाई - 4

13. प्राचीन भारत में महिला शिक्षा
14. मध्यकालीन भारत में महिला शिक्षा
15. प्राचीन भारत में महिलाओं की वैधानिक एवं राजनैतिक स्थिति
16. मध्यकालीन भारत में महिलाओं की वैधानिक एवं राजनैतिक स्थिति

इकाई - 5

17. प्राचीन कालीन महत्वपूर्ण महिलाएं -गार्गी,मैत्रयी,
18. मध्यकालीन महत्वपूर्ण महिलाएं -रजिया,गुलबदन,नूरजहां
19. भक्ति आंदोलन और महिलाएं
20. मध्यकालीन मराठा राजनीति एवं महिलाएं



संदर्भ ग्रंथ :

- |                        |                                                               |
|------------------------|---------------------------------------------------------------|
| (1) कमलेश्वर प्रसाद    | – भारत का इतिहास खंड 1, 2, 3                                  |
| (2) सुगम आनंद          | – भारतीय इतिहास में नारी                                      |
| (3) के.सी.श्रीवास्तव   | – प्राचीन भारत का इतिहास तथा संस्कृति                         |
| (4) सुरेश चंद्र शुक्ला | – भारतीय इतिहास में नारी                                      |
| (5) रामधारी सिंह दिनकर | – संस्कृति के चार अध्याय                                      |
| (6) पुरी, दास, चोपड़ा  | – भारत का सामाजिक, आर्थिक, सांस्कृतिक इतिहास<br>(भाग 1 एवं 2) |
| (7) प्रताप सिंह        | – आधुनिक भारत का सामाजिक, आर्थिक इतिहास                       |
| (8) राम शरण शर्मा      | – प्राचीन भारत                                                |
| (9) सुधा गोस्वामी      | – भारत की चर्चित महिलाएं                                      |
| (10) डॉ.एम.के. गिरि    | – द रोल एंड स्टेट्स ऑफ वीमन इन सिक्खिज्म                      |
| (11) राजपाल            | – वीमेन इन अरली मिडिवल नार्थ इंडिया                           |



सत्र 2018-19 (जनवरी 2019 से प्रारंभ)  
एम.ए.पूर्व इतिहास,द्वितीय सेमेस्टर (M.A. Previous History, 2<sup>nd</sup> Semester)  
पंचम-प्रश्न पत्र,अनिवार्य (Five<sup>th</sup>- Paper, Compulsory)  
इतिहास लेखन (Historiography)  
(पेपर कोड-0370-II) (Paper Code - 0370 - II)

इकाई - 1

1. यूनानी एवं रोमन इतिहास लेखन
2. चीनी इतिहास लेखन
3. मध्यकालीन यूरोपीय इतिहास लेखन
4. प्रबुद्धतावादी इतिहास लेखन

इकाई - 2

5. अरबी तथा परशियन (फारसी) इतिहास लेखन
6. प्राचीन भारत में इतिहास लेखन की परम्परा
7. मध्यकालीन भारतीय इतिहास लेखन-सल्तनत काल
8. मध्यकालीन भारतीय इतिहास लेखन-मुगल कालीन

इकाई - 3

9. भारतीय इतिहास की साम्राज्यवादी व्याख्या
10. भारतीय इतिहास की राष्ट्रवादी व्याख्या
11. भारतीय इतिहास की मार्क्सवादी व्याख्या
12. भारतीय इतिहास की सवालटर्न अथवा जनवादी व्याख्या

इकाई - 4

13. भारतीय इतिहास की विषय वस्तु-आर्थिक इतिहास
14. भारतीय इतिहास की विषय वस्तु-सामाजिक-सांस्कृतिक इतिहास
15. जातीय एवं जनजातीय इतिहास
16. क्षेत्रीय इतिहास लेखन

इकाई - 5

17. भारतीय इतिहास की विषय वस्तु-कृषक एवं श्रमिक
18. भारतीय इतिहास की विषय वस्तु-विज्ञान एवं प्रौद्योगिकी
19. भारतीय इतिहास की विषय वस्तु-नारी
20. जनसंचार के माध्यम में इतिहास की प्रस्तुति



संदर्भ ग्रंथ :

- |                              |                                                   |
|------------------------------|---------------------------------------------------|
| (1) गोविन्द चन्द्र पांडे     | – इतिहास स्वरूप एवं सिद्धांत                      |
| (2) के.एल.खुराना, आर.के.बंसल | – इतिहास-लेखन, धारणाएं तथा पद्धतियां              |
| (3) प्रो. राधेशरण            | – इतिहास पद्धतियां एवं इतिहास लेखन                |
| (4) कौलेश्वर राय             | – इतिहास दर्शन                                    |
| (5) कंवर बहादुर कौशिक        | – इतिहास दर्शन एवं भारतीय-इतिहास लेखन             |
| (6) Gyanendra Pandey         | – Subaltern Studies                               |
| (7) ई. श्रीधरन               | – इतिहास लेख एक पाठ्य पुस्तक 500 ई.पू. से 2000 तक |
| (8) S.P.Sen                  | - History & Historiography in Modern India        |
| (9) Ranjit Guha              | - Subaltern Studies (All Volumes)                 |
| (10) बी.के. श्रीवास्तव       | – इतिहास के सिद्धांत स्वरूप एवं इतिहास लेखन       |
| (11) हेरम्ब चतुर्वेदी        | – मध्यकालीन इतिहासकार                             |
| (12) R.C.Majumdar            | - Historiography of Modern India                  |
| (13) बी. शेख अली             | – हिस्ट्री इट्स थ्योरी एंड मेथड                   |
| (14) ए.आर. देसाई             | – भारतीय राष्ट्रवाद की सामाजिक पृष्ठभूमि          |
| (15) D.N. Dhanagare          | - Peasant movements in India – (1920-1950)        |



सत्र 2018-19 (जनवरी 2019 से प्रारंभ)  
एम.ए.पूर्व इतिहास, द्वितीय सेमेस्टर (M.A. Previous History, 2<sup>nd</sup> Semester )  
षष्ठम-प्रश्न पत्र (अनिवार्य) (Six<sup>th</sup> Paper, Compulsory)  
समकालीन विश्व 1920-2000ई.(Contemporary World 1920-2000 A.D.)  
(पेपर कोड-0371-II) (Paper Code - 0371 - II)

इकाई - 1

1. इटली में फासीवाद-उदय के कारण
2. मुसोलिनी -गृह एवं विदेश नीति
3. जर्मनी में नाजीवाद का उदय-कारण
4. हिटलर की गृह नीति

इकाई - 2

5. हिटलर की विदेश नीति
6. जापान में सैन्यवाद
7. द्वितीय विश्व युद्ध - कारण एवं परिणाम
8. संयुक्त राष्ट्रसंघ - उद्देश्य एवं संगठन

इकाई - 3

9. संयुक्त राष्ट्रसंघ - उपलब्धियां एवं योगदान
10. निशस्त्रीकरण की समस्याएं
11. चीन में राष्ट्रवाद एवं साम्यवाद का संघर्ष
12. चीन में साम्यवादी सरकार का अभ्युदय

इकाई - 4

13. हिन्द चीन एवं इंडोनेशिया में राष्ट्रीय आंदोलन
14. शीत युद्ध -स्वरूप, अंतर्राष्ट्रीय संधियां एवं तनाव
15. साम्यवादी रूस का विघटन - कारण
16. एक ध्रुवीय विश्व

इकाई - 5

17. गुटनिरपेक्ष आंदोलन एवं भारत, पंचशील
18. अरब राष्ट्रवाद
19. आधुनिक तुर्की
20. अंतर्राष्ट्रीय समस्या - फिलीस्तीन, कोरिया एवं वियतनाम



संदर्भ ग्रंथ :

- (1) दीनानाथ वर्मा – आधुनिक विश्व का इतिहास
- (2) सत्यकेतु विद्यालंकार – एशिया का इतिहास
- (3) के.एल.खुराना एवं शर्मा – बीसवीं शताब्दी का विश्व
- (4) देवेन्द्र सिंह चौहान – समकालीन यूरोप
- (5) S.P. Nanda - History of Modern World
- (6) सुरेश चंद्र एवं शिवकुमार – आधुनिक विश्व का इतिहास
- (7) कालू राम शर्मा – आधुनिक विश्व
- (8) ई.एच.कार – दो विश्व युद्ध के बीच
- (9) जैन एवं माथुर – विश्व का इतिहास
- (10) D.G.E. Hall - South East Asia
- (11) B.V.E. Rao - History of World
- (12) Leyender - The Middle East
- (13) A.C.Ray - Contemporary World since 1919
- (14) P.K. Chatterjee - Modern World
- (15) D.C.Bhattacharya - International Relation in the 20th century
- (16) अजय चंद्र बनर्जी – आधुनिक विश्व
- (17) अर्जुन देव, इंदिरा अर्जुन देव – समकालीन विश्व का इतिहास (1890–2008)
- (18) बी.एन.लुणिया – आधुनिक पाश्चात्य इतिहास की प्रमुख धाराएं (भाग-2)
- (19) कौलेश्वर राय – आधुनिक यूरोप (1789–1945)
- (20) Arjun Dev, Indira Arjun Dav – History of the World- Form the late 19<sup>th</sup> to the early 21<sup>st</sup> century

*Handwritten signature*

सत्र 2018-19 (जनवरी 2019 से प्रारंभ)

एम.ए.पूर्व इतिहास, द्वितीय सेमेस्टर (M.A. Previous History, 2<sup>nd</sup> Semester)  
सप्तम-प्रश्न पत्र (अनिवार्य) (Seven<sup>th</sup> Paper Compulsory)  
आधुनिक छत्तीसगढ़ (Modern Chhattisgarh)  
(पेपर कोड-0372-II) (Paper Code - 0372 - II)

इकाई - 1

1. ब्रिटिश सत्ता की स्थापना
2. ब्रिटिश कालीन प्रशासनिक व्यवस्था
3. ब्रिटिश कालीन छत्तीसगढ़ की सामाजिक, सांस्कृतिक दशा
4. छत्तीसगढ़ के रियासतों के प्रति ब्रिटिश नीति

इकाई - 2

5. 1857 का विप्लव - छत्तीसगढ़ में
6. जमींदारी विद्रोह - वीरनारायण सिंह
7. बस्तर में आदिवासी विद्रोह - 1876 एवं 1910
8. छत्तीसगढ़ में राष्ट्रीय आंदोलन 1920 तक

इकाई - 3

9. छत्तीसगढ़ में असहयोग आंदोलन
10. छत्तीसगढ़ में सविनय अवज्ञा आंदोलन
11. छत्तीसगढ़ में जंगल सत्याग्रह
12. छत्तीसगढ़ में व्यक्तिगत सत्याग्रह

इकाई - 4

13. छत्तीसगढ़ में भारत छोड़ो आंदोलन
14. छत्तीसगढ़ में किसान आंदोलन
15. छत्तीसगढ़ में श्रमिक आंदोलन
16. छत्तीसगढ़ में रियासतों का विलीनीकरण

इकाई - 5

17. छत्तीसगढ़ में धार्मिक आस्थाएँ, शैव, वैष्णव, शाक्त, जैन एवं बौद्ध धर्म
18. छत्तीसगढ़ में कबीर एवं सतनाम पंथ
19. छत्तीसगढ़ की लोक संस्कृति
20. छत्तीसगढ़ राज्य निर्माण की पृष्ठभूमि



संदर्भ ग्रंथ :

- |                                               |                                                                                                        |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------|
| (1) किशोर अग्रवाल                             | – बीसवीं शताब्दी का छत्तीसगढ़                                                                          |
| (2) किशोर अग्रवाल                             | – स्वातंत्र्योत्तर छत्तीसगढ़                                                                           |
| (3) अरविंद शर्मा                              | – छत्तीसगढ़ का इतिहास                                                                                  |
| (4) तृषा शर्मा                                | – छत्तीसगढ़ इतिहास, संस्कृति एवं परंपरा                                                                |
| (5) अशोक शुक्ला                               | – छत्तीसगढ़ का राजनीतिक इतिहास                                                                         |
| (6) भगवान सिंह वर्मा                          | – छत्तीसगढ़ का इतिहास                                                                                  |
| (7) सुरेश चंद्र                               | – छत्तीसगढ़ का समग्र इतिहास                                                                            |
| (8) हीरालाल शुक्ला                            | – छत्तीसगढ़ का इतिहास                                                                                  |
| (9) दिनेश कुमार राठौर                         | – कांकेर का इतिहास                                                                                     |
| (10) ऋषिराज पांडेय                            | – सारंगढ़ रियासत                                                                                       |
| (11) देवेश शर्मा                              | – मध्यप्रांत में व्यक्तिगत सविनय अवज्ञा आन्दोलन अवज्ञा आन्दोलन                                         |
| (12) रश्मि चौबे                               | – राष्ट्रीय चेतना के विकास में छत्तीसगढ़ के साहित्यकारों का योगदान "पंडित सुंदरलाल शर्मा के विशेष में" |
| (13) सुरेश चंद्र शुक्ला,<br>एवं अर्चना शुक्ला | – छत्तीसगढ़ की रियासतों का विलीनीकरण                                                                   |
| (14) शैलेन्द्र सिंग                           | – भारत के आदिवासी क्षेत्रों के सामन्तीय रियासतों एवं जमींदारियों में जनजागृति                          |
| (15) राधेश्याम पटेल                           | – कबीर पंथ और छत्तीसगढ़ का सामाजिक विकास                                                               |
| (16) रीता पांडे                               | – बिलासपुर जिले की भूराजस्व व्यवस्था 1861-1947                                                         |



सत्र 2018-19 (जनवरी 2019 से प्रारंभ)  
एम.ए.पूर्व इतिहास, द्वितीय सेमेस्टर (M.A.Previous History, 2<sup>nd</sup> Semester )  
अष्टम-प्रश्न पत्र (वैकल्पिक- अ) (Eight<sup>th</sup>-Paper ,Optional - A)  
आधुनिक इंग्लैंड (1885 से 1956 ई.तक) (Modern England 1885 - 1956A.D.)  
(पेपर कोड-0373-II) (Paper Code - 0373 - II)

इकाई - 1

1. ग्लैंडस्टन - आयरिश नीति
2. ग्लैंडस्टन - गृह नीति
3. डिज़रैली - विदेश नीति
4. सेलिसबरी - गृह नीति

इकाई - 2

5. सेलिसबरी - विदेश नीति
6. चेम्बरलेन का साम्राज्यवाद
7. 1911 का सुधार अधिनियम
8. इंग्लैंड की गृह नीति (1902-1914)

इकाई - 3

9. इंग्लैंड की विदेश नीति (1902-1914)
10. इंग्लैंड और पूर्वी समस्या (1878-1914)
11. प्रथम विश्व युद्ध में इंग्लैंड की भूमिका
12. दो विश्व युद्धों के बीच इंग्लैंड

इकाई - 4

13. विश्व आर्थिक मंदी और इंग्लैंड
14. अफ्रीका के विभाजन में इंग्लैंड की भूमिका
15. ग्रेट ब्रिटेन की गृह नीति (1919-1939)
16. ग्रेट ब्रिटेन की विदेश नीति (1919-1935)

इकाई - 5

17. चेम्बरलेन की तुष्टीकरण की नीति (1936-1939)
18. द्वितीय विश्व युद्ध में इंग्लैंड की भूमिका
19. द्वितीय विश्व युद्ध के पश्चात् इंग्लैंड की स्थिति
20. इंग्लैंड और शीत युद्ध

संदर्भ ग्रंथ :

- (1) एल.पी.शर्मा – इंग्लैंड का इतिहास
- (2) विद्याधर महाजन – इंग्लैंड का इतिहास
- (3) J.A.R. Marriott - Modern England
- (4) G.M. Trevelyan - Social History of England
- (5) अरुण कुमार मित्तल – इंग्लैंड का इतिहास
- (6) रमेश चंद्र सिन्हा – इंग्लैंड का इतिहास
- (7) Ramsay Muir - History of England

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सत्र 2018-19 (जनवरी 2019 से प्रारंभ)  
एम.ए.पूर्व इतिहास, द्वितीय सेमेस्टर (M.A.Previous History, 2<sup>nd</sup> Semester)  
अष्टम-प्रश्न पत्र (वैकल्पिक-ब) (Eight<sup>th</sup> Paper, Optional - B)  
आधुनिक भारत में नारी (Women in Modern India)  
(पेपर कोड-0377-II) (Paper Code - 0377 - II)

इकाई - 1

1. औपनिवेशिक काल में नारी शिक्षा
2. पुनर्जागरण आंदोलन और महिलाएं - नारी उत्थान के प्रयास
3. उन्नीसवीं शताब्दी के नारी संगठन
4. बीसवीं शताब्दी के नारी संगठन

इकाई - 2

5. भारतीय स्वतंत्रता आंदोलन और महिलाएं, 1857 की क्रांति
6. भारतीय स्वतंत्रता आंदोलन और महिलाएं, गांधीवादी आंदोलन
7. भारतीय स्वतंत्रता आंदोलन और महिलाएं, क्रांतिकारी आंदोलन
8. भारतीय स्वतंत्रता आंदोलन और महिलाएं, आजाद हिंद फौज

इकाई - 3

9. स्वतंत्रता के पश्चात् राजनीति और महिलाएं - पंचायत
10. स्वतंत्रता के पश्चात् राजनीति और महिलाएं - विधानसभा से संसद तक
11. मताधिकार और महिलाएं
12. पंचवर्षीय योजनाएं और महिलाएं

इकाई - 4

13. भारतीय संविधान में महिलाओं की स्थिति
14. स्वतंत्रोत्तर भारत में महिलाओं की वैधानिक स्थिति
15. जनजातीय समाज में महिलाओं की स्थिति
16. महिलाओं के प्रति हिंसा एवं अपराध

इकाई - 5

17. महिलाएं - कला एवं साहित्य के क्षेत्र में
18. मानवाधिकार एवं महिलाएं
19. स्वतंत्रोत्तर भारत में महिला शिक्षा
20. काम काजी महिलाएं - स्वावलंबन एवं सशक्तिकरण



संदर्भ ग्रंथ :

- (1) कमलेश्वर प्रसाद – भारत का इतिहास खंड 1, 2, 3
- (2) सुगम आनंद – भारतीय इतिहास में नारी
- (3) विपिन चंद्र – आजादी के बाद का भारत
- (4) पुरी, दास, चोपड़ा – भारत का सामाजिक, आर्थिक, सांस्कृतिक इतिहास (खंड तीन)
- (5) प्रताप सिंह – आधुनिक भारत का सामाजिक, आर्थिक इतिहास
- (6) आनंद मूर्ति – भारतीय इतिहास में नारी
- (7) गोपा जोशी – भारत में स्त्री असमानता
- (8) नीतू केंग – इंडियन वीमेन एक्टिविस्ट
- (9) सी.एन.मंगल,  
यशोदा भट्ट – बीयांड द थ्रेस होल्ड-इंडियन वीमेन ऑन द मूव
- (10) सुधा गोस्वामी – भारत की चर्चित महिलाएं
- (11) कौरोलिय एम बायर्ली – महिलायें और संचार माध्यम  
और कारेन रास
- (12) साधना आर्य, नवोदिता – नारीवादी राजनीति संघर्ष एवं मुद्दे  
मेनन आदि (संपादक)
- (13) यशोदा भट्ट – वीमेन इन इंडिया इन फिफटी इयर्स ऑफ इंडिपेंडेंस
- (14) वृंदा करात – भारतीय नारी संघर्ष और मुक्ति
- (15) सीमा पाल – भारतीय संस्कृति एवं ब्रिटिश उपनिवेशवाद



**सत्र-2018-19 (Session 2018-19)**  
**(जुलाई 2018 से प्रारंभ)**  
**एम.ए.अंतिम, इतिहास (M.A. Final, History)**  
**तृतीय एवं चतुर्थ सेमेस्टर (Third & Fourth Semester)**

टीप :- परीक्षार्थियों को निम्नलिखित खण्ड ब एवं स में से किसी एक खण्ड का चयन कर उसके दोनों प्रश्न पत्रों को हल करना होगा तथा दिये गए चार वैकल्पिक प्रश्न पत्रों में से कोई दो वैकल्पिक प्रश्न पत्रों का चयन करना होगा। सभी प्रश्न पत्रों में 100-100 अंक होंगे। 100 अंकों में 80 अंक सैद्धांतिक एवं 20 अंक आंतरिक मूल्यांकन के होंगे। सभी प्रश्न पत्रों के 5-5 क्रेडिट हैं।

**तृतीय सेमेस्टर (Third Semester)**

| प्रश्न पत्र                 | प्रश्न पत्र का नाम                                                                                                                                                                                                                                                                                                       | कोड संख्या               | पूर्णांक           | सैद्धांतिक       | आंतरिक मूल्यांकन |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|------------------|------------------|
| प्रथम<br>I<br>द्वितीय<br>II | खण्ड ब : मध्यकालीन भारत<br><b>Setion B : Medieval India</b><br>सल्तनत कालीन भारतीय राजनय एवं अर्थव्यवस्था (1200 से 1526 ई. तक)<br>Indian polity and economy in the Sultanate period (1200-1526 A.D.)<br>सल्तनत कालीन समाज एवं संस्कृति (1200 से 1526 ई.)<br>Society and culture in the Sultanate period (1200-1526 A.D.) | 0380-I<br><br><br>0381-I | 100<br><br><br>100 | 80<br><br><br>80 | 20<br><br><br>20 |
| प्रथम<br>I                  | खण्ड स : आधुनिक भारत<br><b>Setion C : Modern India</b><br>आधुनिक भारत का राजनीतिक, प्रशासनिक इतिहास (1757 ई. से 1857 ई. तक)<br>Political and Administrative History of Modern India( 1757 A.D. to 1857 A.D.)                                                                                                             | 0382-I                   | 100                | 80               | 20               |

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|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|----|----|
| द्वितीय<br>II | आधुनिक भारत का आर्थिक, सामाजिक, एवं सांस्कृतिक इतिहास (1757 ई. से 1857 ई. तक)<br>Economical, Social and Cultural History of Modern India (1757 -1857 A.D.) | 0383-I | 100 | 80 | 20 |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|----|----|

| वैकल्पिक प्रश्न पत्र (Optional Paper) |                                                                                                                   |             |     |    |    |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------|-----|----|----|
| वैक. प्रथम<br>Op. - I                 | भारतीय राष्ट्रीय आंदोलन का इतिहास (1857 से 1922 ई. तक)<br>History of Indian National Movement (1857 to 1922 A.D.) | 0384-I      | 100 | 80 | 20 |
| वैक. द्वितीय<br>Op. - II              | भारत का सांस्कृतिक इतिहास (प्रारंभ से 1526 ई. तक)<br>Cultural History of India (Begining to 1526 A.D.)            | 0385-I      | 100 | 80 | 20 |
| वैक. तृतीय<br>Op. - III               | भारतीय संविधान और शासन व्यवस्था (Indian Constitution and Administrative System)                                   | 0386-I<br>A | 100 | 80 | 20 |
| वैक. चतुर्थ<br>Op. - IV               | पर्यटन सिद्धांत<br>Tourism Theory                                                                                 | 0387-I      | 100 | 80 | 20 |

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चतुर्थ सेमेस्टर (Forth Semester)

| प्रश्न पत्र | प्रश्न पत्र का नाम                                                                 | कोड संख्या | पूर्णांक | सैद्धांतिक | आंतरिक मूल्यांकन |
|-------------|------------------------------------------------------------------------------------|------------|----------|------------|------------------|
|             |                                                                                    |            |          |            |                  |
|             | खण्ड ब : मध्यकालीन भारत                                                            |            |          |            |                  |
|             | <b>Section B : Medieval India</b>                                                  |            |          |            |                  |
| प्रथम       | मुगलकालीन भारतीय राजनय एवं अर्थव्यवस्था (1526 से 1750 ई. तक)                       | 0380-II    | 100      | 80         | 20               |
| I           | Indian Politiy and Economy in Mughal Period (1526-1750 A.D.)                       |            |          |            |                  |
| द्वितीय     | मुगलकालीन समाज एवं संस्कृति (1526 से 1750 ई.)                                      |            |          |            |                  |
| II          | Society and Culture in Mughal Period (1526-1750 A.D.)                              | 0381-II    | 100      | 80         | 20               |
|             | खण्ड स : आधुनिक भारत                                                               |            |          |            |                  |
|             | <b>Section C : Modern India</b>                                                    |            |          |            |                  |
| प्रथम       | आधुनिक भारत का राजनीतिक एवं प्रशासनिक इतिहास (1858 ई. से 1964 तक)                  | 0382-II    | 100      | 80         | 20               |
| I           | (Political and Administrative History of Modern India (1858 - 1964 A.D.)           |            |          |            |                  |
| द्वितीय     | आधुनिक भारत का आर्थिक, सामाजिक एवं सांस्कृतिक इतिहास (1858 ई. से 1964 ई. तक )      |            |          |            |                  |
| II          | Economical, Social, and Cultural History of Modern India ( 1858 A.D. to 1964 A.D.) | 0383-II    | 100      | 80         | 20               |

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| वैकल्पिक प्रश्न पत्र (Optional Paper) |                                                                                                                         |              |     |    |    |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------|-----|----|----|
| वैक.<br>प्रथम<br>Op. - I              | भारतीय राष्ट्रीय आंदोलन का इतिहास (1922 से 1947 ई. तक)<br>History of Indian Indian National Movement (1922 - 1947 A.D.) | 0384-<br>II  | 100 | 80 | 20 |
| वैक.<br>द्वितीय<br>Op. - II           | भारत का सांस्कृतिक इतिहास<br>(1526 ई. से 1950 ई. तक)<br>Cultural History of India<br>(1526 - 1950 A.D.)                 | 0385-<br>II  | 100 | 80 | 20 |
| वैक.<br>तृतीय<br>Op. - III            | भारत की केन्द्रीय तथा प्रांतीय शासन व्यवस्था<br>Central and Provincial Administrative System of India                   | 0386-<br>IIA | 100 | 80 | 20 |
| वैक.<br>चतुर्थ<br>Op. - IV            | पर्यटन सिद्धांत एवं व्यवहार-इतिहास के संदर्भ में<br>Tourism Theory and Principles In Reference of History               | 0387-<br>II  | 100 | 80 | 20 |

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सत्र 2018-19 ( जुलाई 2018 से प्रारंभ)  
 एम.ए.अंतिम इतिहास ,तृतीय सेमेस्टर (M.A. Final.History ,Third Semester)  
 (खण्ड-ब) मध्यकालीन भारत (Section -B, Medieval India)  
 प्रथम-प्रश्न पत्र (Paper - I)  
 सल्तनत कालीन भारतीय राजनय एवं अर्थव्यवस्था (1200 से 1526 ई.)  
 Indian Polity and Economy in Sultanate Period (1200-1526 A.D.)  
 (पेपर कोड-0380-I) (Paper Code-0380-I)

इकाई - 1

1. सल्तनत कालीन इतिहास के स्रोत
2. दिल्ली सल्तनत की स्थापना एवं प्रसार
3. सल्तनत कालीन इतिहास लेखन - विभिन्न विचारधाराएं
4. सल्तनत कालीन राज्य का स्वरूप एवं सिद्धांत

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5. सल्तनकालीन केन्द्रीय प्रशासन
6. सल्तनत कालीन प्रांतीय व्यवस्था-इक्ता
7. अलाउद्दीन खिलजी की आर्थिक नीति-बाजार नियंत्रण
8. अलाउद्दीन खिलजी की विजयें-उत्तर भारत, दक्षिण भारत

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9. मुहम्मद बिन तुगलक की योजनाएं
10. फिरोजशाह तुगलक का प्रशासन
11. सल्तनतकालीन क्षेत्रीय राज्य - उत्तर भारत
12. सल्तनतकालीन क्षेत्रीय राज्य - दक्षिण भारत

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13. सल्तनतकालीन भूराजस्व व्यवस्था
14. सल्तनतकालीन शिल्प व उद्योग
15. सल्तनतकालीन आंतरिक व्यापार
16. सल्तनतकालीन विदेशी व्यापार

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17. तैमूर का आक्रमण एवं प्रभाव
18. सल्तनत काल में नगरों का उदय
19. सल्तनत कालीन मुद्राएं एवं बैंकिंग
20. सल्तनत कालीन - कृषि एवं उद्योग

*meel*

## संदर्भ ग्रंथ :

- (1) हरिश्चंद्र वर्मा – मध्यकालीन भारत भाग – 1
- (2) ए.एल. श्रीवास्तव – सल्तनतकालीन भारत
- (3) विपिन बिहारी सिन्हा – मध्यकालीन भारत
- (4) बी.एन. लूणिया – पूर्व मध्यकालीन भारत
- (5) इरफान हबीब – सल्तनतकालीन भारत
- (6) एल.पी. शर्मा – मध्यकालीन भारत
- (7) हेरम्ब चतुर्वेदी – मध्यकालीन इतिहासकार
- (8) सतीश चंद्र – मध्यकालीन भारत-राजनीति, समाज और संस्कृति-आठवीं से सत्रहवीं सदी तक
- (9) वी. डी. महाजन – मध्य कालीन भारत 1000ई. से 1761ई. तक



सत्र 2018-19 ( जुलाई 2018 से प्रारंभ)

एम.ए.अंतिम इतिहास, तृतीय सेमेस्टर (M.A. Final. History, Third Semester )

(खण्ड-ब) मध्यकालीन भारत (Section -B, Medieval India)

द्वितीय-प्रश्न पत्र (Paper - II)

सल्तनत कालीन समाज एवं संस्कृति (1200 से 1526 ई. तक)  
Society and Culture in Sultanate Period (1200-1526 A.D.)

(पेपर कोड-0381-I) (Paper Code-0381-I)

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1. सल्तनत कालीन समाज - संरचना एवं परिवर्तन
2. सल्तनत कालीन नगरीय समाज - नये सामाजिक वर्गों का उदय
3. सल्तनत कालीन हिन्दू समाज
4. सल्तनत कालीन मुस्लिम समाज

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5. भक्ति आंदोलन - उदय के लिए उत्तरदायी तत्व
6. सगुण भक्ति की विशेषताएं
7. कृष्ण भक्ति शाखा
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9. निर्गुण भक्ति सम्प्रदाय - कबीर और नानक
10. भक्ति आंदोलन की क्षेत्रीय विशेषताएं
11. भक्ति आंदोलन की भारतीय समाज एवं संस्कृति पर प्रभाव
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13. सूफीवाद
14. प्रमुख सूफी सिलसिलें और उनकी विशेषताएं
15. इण्डो-इस्लामिक संस्कृति का उदय एवं विकास
16. सल्तनत कालीन विज्ञान एवं तकनीकी

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17. सल्तनत कालीन स्थापत्य कला
18. सल्तनत कालीन क्षेत्रीय स्थापत्य कला
19. सल्तनत काल में साहित्य का विकास
20. सल्तनत काल में चित्रकला एवं संगीत कला

## संदर्भ ग्रंथ :

- |                         |                                                         |
|-------------------------|---------------------------------------------------------|
| (1) बी.के. पंजाबी       | — मध्यकालीन भारतीय इतिहास                               |
| (2) हरिश्चंद्र वर्मा    | — मध्यकालीन भारत भाग-1                                  |
| (3) रामधारी सिंह दिनकर  | — संस्कृति के चार अध्याय                                |
| (4) बी.एन. लूणिया       | — पूर्व मध्यकालीन भारत                                  |
| (5) विपिन बिहारी सिन्हा | — मध्यकालीन भारत                                        |
| (6) प्रताप सिंह         | — मध्यकालीन संस्कृति                                    |
| (7) राजबली सिंह         | — सूफीवाद                                               |
| (8) एल.पी. शर्मा        | — मध्यकालीन भारत                                        |
| (9) ए.एल. श्रीवास्तव    | — मध्यकालीन संस्कृति                                    |
| (10) पुरी, दास, चोपड़ा  | — भारत का सामाजिक, आर्थिक एवं सांस्कृतिक इतिहास (भाग-2) |
| (11) वी. डी. महाजन      | — मध्य कालीन भारत 1000ई. से 1761ई. तक                   |



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 (खण्ड-स) आधुनिक भारत (Section -C, Modern India)  
 प्रथम-प्रश्न पत्र (Paper - I)  
 आधुनिक भारत का राजनीतिक एवं प्रशासनिक इतिहास (1757 ई. से 1857 ई. तक)  
 Political and Administrative History of Modern India( 1757 -1857A.D.)  
 (पेपर कोड-0382-1) (Paper Code-0382-1)

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1. आधुनिक भारतीय इतिहास के स्रोत
2. आधुनिक भारतीय इतिहास लेखन की विचारधाराएं-साम्राज्यवादी, राष्ट्रवादी
3. आधुनिक भारतीय इतिहास लेखन की विचारधाराएं-मावर्सवादी, जनवादी
4. पूर्व औपनिवेशिक भारत की राजनीतिक व्यवस्था

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5. भारत में यूरोपियों का आगमन
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7. बंगाल में अंग्रेजी शक्ति का उदय
8. ब्रिटिश साम्राज्य का विस्तार-नीतियां तथा कार्यक्रम

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9. आंग्ल - मैसूर संबंध
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13. आंग्ल - अवध संबंध
14. भारत की औपनिवेशिक संरचना-प्रशासनिक स्वरूप
15. संवैधानिक विकास - 1773-1784
16. संवैधानिक विकास - 1784-1854

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17. कंपनी एवं रियासतों के संबंध
18. कंपनी प्रशासन के अंतर्गत पुलिस, लोकसेवा एवं न्याय व्यवस्था
19. उपनिवेशवाद का प्रतिरोध-जनजातीय व कृषक आंदोलन
20. 1857 की क्रांति-विचारधाराएं, कारण, स्वरूप एवं महत्व





## संदर्भ ग्रंथ :

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|-----------------------------|----------------------------------------------------|
| (1) एल.पी. शर्मा            | – आधुनिक भारत                                      |
| (2) रजनीपाम दत्त            | – इंडिया टुडे                                      |
| (3) प्रताप सिंह             | – आधुनिक भारत का इतिहास                            |
| (4) एम.एस. जैन              | – आधुनिक भारत                                      |
| (5) सुमित सरकार             | – आधुनिक भारत का इतिहास                            |
| (6) बी.एल. ग्रोवर एवं यशपाल | – आधुनिक भारत का इतिहास                            |
| (7) एग्नेस ठाकुर            | – भारत का इतिहास 1757–1857                         |
| (8) वीरकेश्वर प्रसाद सिंह   | – भारतीय राष्ट्रीय आंदोलन एवं संवैधानिक विकास      |
| (9) एस.आर. शर्मा            | – मेकिंग आफ मॉडर्न इंडिया                          |
| (10) बी.बी. मिश्र           | – सेंट्रल एडमिनिस्ट्रेशन आफ ईस्ट इंडिया कंपनी      |
| (11) शेखर बंधोपाध्याय       | – प्लासी से विभाजन तक और उसके बाद                  |
| (12) विपिन चंद्रा           | – आधुनिक भारत का इतिहास                            |
| (13) वी.डी. महाजन           | – मॉडर्न इंडियन हिस्ट्री फ्रॉम 1707 टू प्रजेन्ट डे |
| (14) के.सी. चौधरी           | – हिस्ट्री आफ मॉडर्न इंडिया                        |
| (15) कौलेश्वर राय           | – आधुनिक भारत 1757–1950                            |
| (16) सीमा पाल               | – भारतीय संस्कृति एवं ब्रिटिश उपनिवेशवाद           |



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 (खण्ड-स) आधुनिक भारत (Section -C. Modern India)  
 द्वितीय-प्रश्न पत्र (Paper - II)  
 आधुनिक भारत का आर्थिक, सामाजिक एवं सांस्कृतिक इतिहास (1757 ई.से 1857ई. तक)  
 (Economical, Social and Cultural History of Modern India 1757 -1857 A.D.)  
 (पेपर कोड-0383-I) (Paper Code-0383-I)

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1. पूर्व औपनिवेशिक भारत की आर्थिक व्यवस्था
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3. अंग्रेजों की व्यापारिक, वाणिज्यिक नीति
4. कृषि का वाणिज्यीकरण

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5. ग्रामीण अर्थव्यवस्था - कृषि की स्थिति एवं समस्याएं
6. नवीन भूराजस्व व्यवस्था - स्थाई बंदोबस्त
7. नवीन भूराजस्व व्यवस्था - रैयतवाड़ी, महालवाड़ी
8. अकाल एवं अकाल नीति

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9. शहरी अर्थव्यवस्था - हस्तशिल्प, उद्योगों की स्थिति
10. औद्योगीकरण 1757-1857
11. आंतरिक बाजार और शहरी केन्द्र, विदेशी व्यापार
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13. पूर्व औपनिवेशिक भारत की सामाजिक एवं सांस्कृतिक व्यवस्था
14. भारतीय पुनर्जागरण
15. समन्वयवादी समाज सुधार आंदोलन-बंगाल एवं महाराष्ट्र के संदर्भ में
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20. भारतीय प्रेस (1857 तक)



## संदर्भ ग्रंथ :

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| (1) एल.पी. शर्मा       | - आधुनिक भारत                                          |
| (2) ए.आर. देसाई        | - आधुनिक राष्ट्रवाद की सामाजिक पृष्ठभूमि               |
| (3) रजनी पामदत्त       | - इंडिया टुडे                                          |
| (4) ग्रोवर एवं यशपाल   | - आधुनिक भारत का इतिहास एवं नवीन मूल्यांकन (1707-1969) |
| (5) एस.आर. शर्मा       | - मेकिंग आफ मॉडर्न इंडिया                              |
| (6) प्रताप सिंह        | - आधुनिक भारत-1, खंड-3                                 |
| (7) एम.एस. जैन         | - आधुनिक भारत का इतिहास                                |
| (8) एस.पी. नायर        | - सोशल एंड इकॉनामिक हिस्ट्री आफ मॉडर्न इंडिया          |
| (9) S.P. Nanda         | - Economic and Social History of Modern India          |
| (10) V.A. Narain       | - Social History of Modern India                       |
| (11) एग्नेस ठाकुर      | - भारत का आर्थिक इतिहास (1757-1950)                    |
| (12) पुरी, दास, चोपड़ा | - भारत का सामाजिक आर्थिक एवं सांस्कृतिक इतिहास         |
| (13) अरुण भट्टाचार्य   | - हिस्ट्री आफ मॉडर्न इंडिया (1757-1947)                |
| (14) नीलकंठ शास्त्री   | - एडवांस हिस्ट्री ऑफ इंडिया                            |
| (15) आर.सी. मजुमदार    | - ऐन एडवांस हिस्ट्री ऑफ इंडिया                         |
| एवं एच.सी. राय         |                                                        |
| (16) कौलेश्वर राय      | - आधुनिक भारत 1757-195                                 |
| (17) सीमा पाल          | - भारतीय संस्कृति एवं ब्रिटिश उपनिवेशवाद               |



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 खण्ड-स, आधुनिक भारत (Section -C, Modern India)  
 प्रश्न पत्र (वैकल्पिक-01) (Section- C, Paper - Optional - 01)  
 भारतीय राष्ट्रीय आंदोलन का इतिहास (1857ई. से 1922ई. तक)  
 History of National Movement (1857 - 1922 A.D.)  
 (पेपर कोड-0384-I) (Paper Code-0384-I)

इकाई - 1

1. 1857 के विप्लव के कारण
2. 1857 के विप्लव का स्वरूप एवं परिणाम
3. भारत में राष्ट्रवाद की वैचारिक पृष्ठभूमि
4. कांग्रेस की स्थापना के पूर्व राजनीतिक संगठन

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5. भारतीय राष्ट्रीय कांग्रेस की स्थापना - अवधारणाएं एवं उद्देश्य
6. कांग्रेस का नरमपंथी युग - विचारधारा एवं कार्यक्रम
7. कांग्रेस में उग्रवाद का उदय - विचारधारा एवं कार्यक्रम
8. नरमपंथी - उग्रवाद संघर्ष

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9. बंग-भंग एवं स्वदेशी आंदोलन
10. साम्प्रदायिक राजनीति का उदय, मुस्लिम लीग
11. लखनऊ समझौता
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13. गांधीजी का भारतीय राजनीति में प्रवेश एवं उनके नेतृत्व में प्रारंभिक आंदोलन
14. रोलेक्ट एक्ट
15. जलियावाला बाग हत्याकांड और उसका प्रभाव
16. खिलाफत आंदोलन

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17. 1919 के अधिनियम
18. क्रांतिकारी आंदोलन-प्रथम चरण-महाराष्ट्र, बंगाल, पंजाब एवं अन्य क्षेत्र
19. असहयोग आंदोलन
20. असहयोग आंदोलन का भारतीय राजनीति पर प्रभाव

*Amul*

संदर्भ ग्रंथ :

- |                           |                                               |
|---------------------------|-----------------------------------------------|
| (1) ताराचंद               | – भारतीय स्वाधीनता आंदोलन का इतिहास भाग 1 व 2 |
| (2) सुमित सरकार           | – आधुनिक भारत                                 |
| (3) पं.सुंदरलाल शर्मा     | – भारत में अंग्रेजी राज                       |
| (4) डॉ. आभा सक्सेना       | – इंडियन नेशनल मूवमेंट एंड द लिबरलस           |
| (5) ए.आर. देसाई           | – भारतीय राष्ट्रवाद की सामाजिक पृष्ठभूमि      |
| (6) शर्मा एवं शर्मा       | – भारतीय राष्ट्रीय आंदोलन एवं राजनैतिक विकास  |
| (7) कौलेश्वर राय          | – फ्रीडम स्ट्रगल                              |
| (8) विपिन चन्द्र          | – भारतीय स्वतंत्रता संग्राम का इतिहास         |
| (9) बीरकेश्वर प्रसाद सिंह | – भारतीय राष्ट्रीय आंदोलन एवं संवैधानिक विकास |
| (10) रामलखन शुक्ला        | – आधुनिक भारत का इतिहास                       |
| (11) विनोद कुमार सक्सेना  | – द पार्टीशन ऑफ बंगाल                         |
| (12) के.पी. बहादुर        | – हिस्ट्री ऑफ फ्रीडम मूवमेंट इन इंडिया        |
| (13) योगेन्द्र श्रीवास्तव | – हिस्ट्री ऑफ फ्रीडम मूवमेंट 1857–1947        |
| (14) यशपाल एवं ग्रोवर     | – आधुनिक भारत का इतिहास                       |
| (15) कौलेश्वर राय         | – आधुनिक भारत 1757–1950                       |

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 एम.ए.अंतिम इतिहास, तृतीय सेमेस्टर (M.A. Final. History, Third Semester )  
 खण्ड-स, आधुनिक भारत (Section -C, Modern India)  
 प्रश्न पत्र (वैकल्पिक-02) (Section- C, Paper - Optional - 02)  
 भारत का सांस्कृतिक इतिहास (प्रारंभ से 1526 ई. तक)  
 Cultural History of India (Beginning to 1526 A.D.)  
 (पेपर कोड-0385-I) (Paper Code-0385-I)

इकाई - 1

1. हड़प्पा कालीन सामाजिक एवं आर्थिक जीवन
2. हड़प्पा कालीन कला एवं स्थापत्य कला
3. आर्यों का मूल निवास संबंधी अवधारणाएं
4. आर्यों का भारत में प्रसार

इकाई - 2

5. ऋग्वेद कालीन समाज एवं संस्कृति
6. उत्तरवैदिक कालीन समाज एवं संस्कृति
7. वेद, उपनिषद, सूत्र, स्मृतिग्रंथ
8. महाकाव्य युगीन संस्कृति

इकाई - 3

9. महाजनपद कालीन समाज एवं संस्कृति
10. जैन धर्म, बौद्ध धर्म
11. मौर्यकालीन समाज एवं संस्कृति
12. भारतीय संस्कृति में अशोक का योगदान

इकाई - 4

13. गुप्तकालीन समाज एवं धर्म
14. गुप्तकालीन कला विज्ञान एवं साहित्य
15. राजपूत कालीन समाज
16. राजपूत कालीन कला एवं स्थापत्य

इकाई - 5

17. सल्तनत कालीन समाज
18. सल्तनतकालीन संस्कृति की विशेषताएं
19. भक्ति आंदोलन
20. सूफी आंदोलन

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## संदर्भ ग्रंथ :

- |                          |                                               |
|--------------------------|-----------------------------------------------|
| (1) रामशरण शर्मा         | – प्राचीन भारत                                |
| (2) विमल चन्द्र पाण्डेय  | – प्राचीन भारत का राजनीतिक, सांस्कृतिक इतिहास |
| (3) रोमिला थापर          | – अशोक तथा मौर्य साम्राज्य का पतन             |
| (4) के.एन. शास्त्री      | – दक्षिण भारत का इतिहास                       |
| (5) ए.एल. बाशम           | – अद्भुत भारत                                 |
| (6) भारद्वाज             | – मध्यकालीन भारतीय संस्कृति                   |
| (7) जयनारायण पांडे       | – सिंधु सभ्यता                                |
| (8) के.सी. श्रीवास्तव    | – प्राचीन भारत का इतिहास तथा संस्कृति         |
| (9) शिवशंकर शर्मा        | – भारतीय संस्कृति                             |
| (10) नीरज श्रीवास्तव     | – मध्यकालीन भारत—प्रशासन, समाज एवं संस्कृति   |
| (11) रामशरण शर्मा        | – प्रारंभिक भारत का परिचय                     |
| (12) कृष्ण मोहन श्रीमाली | – धर्म, समाज एवं संस्कृति                     |
| (13) रमेन्द्र नाथ नंदी   | – प्राचीन भारत में धर्म के सामाजिक आधार       |
| (14) राधाकुमुद मुखर्जी   | – हिन्दू सभ्यता                               |
| (15) बी.एन. लूणिया       | – प्राचीन भारतीय संस्कृति                     |
| (16) राजबली              | – सूफीवाद                                     |



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 एम.ए.अंतिम, इतिहास तृतीय सेमेस्टर (M.A.Final- History, Third Semester)  
 खण्ड-स, आधुनिक भारत (Section -C, Modern India)  
 प्रश्न पत्र (वैकल्पिक 3) (Section- C, Paper optional- 3)  
भारतीय संविधान और शासन व्यवस्था  
 (Indian Constitution and Administrative System)

इकाई -1

1. भारत की संविधान सभा का गठन
2. भारत का संविधान सभा की विभिन्न समितियों
3. भारतीय संविधान की प्रस्तावना
4. भारतीय संविधान की प्रमुख विशेषताएँ

इकाई -2

5. भारतीय संविधान के स्रोत
6. मौलिक अधिकार एवं सवैधानिक उपचार
7. नीति निर्देशक तत्व
8. मौलिक कर्तव्य

इकाई-3

9. राष्ट्रपति - निर्वाचन, शक्तियाँ एवं कर्तव्य
10. उपराष्ट्रपति निर्वाचन शक्तियाँ एवं कर्तव्य
11. प्रधानमंत्री एवं मंत्रिपरिषद तथा उनके कार्य
12. संसद का गठन - राज्य सभा एवं लोकसभा

इकाई-4

13. संविधान संशोधन प्रक्रिया एवं प्रमुख संशोधन
14. आपातकालीन उपबंध
15. महान्यायवादी
16. नियंत्रक एवं महालेखा परीक्षक

इकाई-5

17. सर्वोच्च न्यायालय
18. संघलोक सेवा आयोग, निर्वाचन आयोग
19. योजना आयोग एवं राष्ट्रीय विकास परिषद
20. वित्त आयोग

अनुशंसित पुस्तकें :-

- डी.डी. बसु - भारत का संविधान एक परिचय
- हिर मोहन जैन - भारतीय शासन और राजनीति
- सुशीला कौशिक - भारतीय शासन और राजनीति
- R.C.Agrawal - Indian Political System
- A.G.Noorani - Constitutional Questions in India
- A.S.Narang - Indian Government and Politics
- G.Austin - The Indian Constitution
- M.V.Paylee - An Introduction to the constitution of India
- सुभाष कश्यप - हमारा संविधान

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 एम.ए.अंतिम, इतिहास, तृतीय सेमेस्टर (M.A.Final History, Third Semester)  
 खण्ड-स, आधुनिक भारत (Section -C, Modern India)  
 प्रश्न पत्र (वैकल्पिक-04) ( Section- C, Paper - Optional -04)  
 पर्यटन सिद्धान्त (Tourism Theory )  
 (पेपर कोड-0387-I) (Paper Code-0387-I)

इकाई - 1

1. पर्यटन का अर्थ एवं परिभाषा
2. पर्यटन की अवधारणा
3. पर्यटन का उद्देश्य एवं महत्व
4. पर्यटन के सिद्धान्त एवं व्यवहार

इकाई - 2

5. पर्यटन संगठन
6. भारतीय पर्यटन संगठन केन्द्रीय
7. प्रान्तीय पर्यटन विभाग
8. छत्तीसगढ़ पर्यटन विकास की योजनाएं

इकाई - 3

9. ट्रेवल एजेंसी - गठन
10. ट्रेवल एजेंसी - कार्य
11. पर्यटन एवं यातायात
12. टिकट एवं आरक्षण कार्य

इकाई - 4

13. पर्यटन विकास में संचार साधनों का योगदान
14. पर्यटन एवं आवास तथा होटल उद्योग, मुद्रा विनिमय
15. अंतर्राष्ट्रीय पर्यटन - पासपोर्ट, वीसा विदेशी संबंधी नियम
16. अंतर्राष्ट्रीय पर्यटन सुविधाएं एवं समस्याएं

इकाई - 5

17. पर्यटन एवं हस्तशिल्प उद्योग
18. पर्यटन एवं कला
19. पर्यटन एवं लोक संस्कृति
20. पर्यटन एवं मेले त्यौहार

संदर्भ ग्रंथ :

- (1) जगमोहन नेगी - पर्यटन एवं यात्रा के सिद्धान्त
- (2) जगमोहन नेगी - पर्यटन एवं मार्केटिंग तथा विकास
- (3) के.के. दीक्षित - पर्यटन के विविध आयाम
- (4) ताज राव - पर्यटन विकास के विविध आयाम
- (5) ताज राव - पर्यटन का प्रभाव एवं प्रबंधन
- (6) ए.के. भाटिया - टूरिज्म डेवलेपमेंट प्रिंसिपल एंड प्रैक्टिस
- (7) राम आचार्य - टूरिज्म इन इंडिया

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सत्र 2018-19 (जनवरी 2019 से प्रारंभ )  
 एम.ए.अंतिम, इतिहास चतुर्थ सेमेस्टर (M.A. Final. History ,Fourth Semester )  
 (खंड- ब, मध्यकालीन भारत) (Section - B , Medieval India)  
 पंचम प्रश्न पत्र (Paper - V)  
 मुगलकालीन भारतीय राजनय एवं अर्थव्यवस्था (1526 से 1750 ई. तक)  
 Indian Politiy and Economy in Mughal Period (1526-1750 A.D.)  
 (पेपर कोड-0380-II) (Paper Code-0380-II)

इकाई - 1

1. मुगलकालीन इतिहास के स्रोत
2. मुगलकालीन इतिहास लेखन - विभिन्न विचारधाराएं
3. मुगलकालीन राजनय - दैवीय अधिकार का सिद्धांत
4. मुगल शासकों की राजत्व नीति

इकाई - 2

5. मुगलकालीन केन्द्रीय प्रशासन
6. मुगलकालीन प्रांतीय प्रशासन विशेषताएं
7. मनसब एवं जागीर
8. शेरशाह का प्रशासन

इकाई - 3

9. मुगलकालीन दरबारी राजनीति एवं संघर्ष
10. मराठा इतिहास के स्रोत
11. मराठा राज्य की स्थापना एवं विकास
12. शिवाजी का प्रशासन

इकाई - 4

13. मुगलकालीन कृषि अर्थव्यवस्था एवं भू-राजस्व
14. मुगलकाल में शिल्प उद्योग
15. मुगलकालीन आंतरिक व्यापार
16. मुगलकालीन विदेशी व्यापार

इकाई - 5

17. मुगलकाल में नगरों का उदय-नगरीय प्रशासन
18. मुगलकालीन मुद्रा एवं बैंकिंग
19. नए व्यापारिक वर्गों का उदय
20. मुगल काल में कृषि एवं उद्योग में तकनीकी परिवर्तन

संदर्भ ग्रंथ :

1. हरिशचन्द्र वर्मा - मध्यकालीन भारत - भाग 2
2. सर जदुनाथ सरकार - शिवाजी एंड हिज टाईम्स
3. ए.एल. श्रीवास्तव - मुगलकालीन भारत
4. बी.एन. लुनिया - मुगल साम्राज्य का उत्कर्ष
5. बी.के. पंजाबी - मध्यकालीन भारत का इतिहास
6. हेरम्ब चतुर्वेदी - मुगलकालीन इतिहासकार
7. हेरम्ब चतुर्वेदी - मुगलकालीन राजनय एवं अर्थव्यवस्था
8. पी.पी. सिन्हा - मध्यकालीन भारत

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सत्र 2018-19 (जनवरी 2019 से प्रारंभ )  
 एम.ए.अंतिम इतिहास, चतुर्थ सेमेस्टर (M.A. Final. History ,Fourth Semester )  
 (खंड- ब ,मध्यकालीन भारत) ( Section – B.Medieval India)  
 षष्ठम प्रश्न पत्र (Paper – VI)  
 मुगलकालीन भारतीय समाज एवं संस्कृति (1526 से 1750 ई. तक)  
 Society and Culture in Mughal Period (1526-1750 A.D.)  
 (पेपर कोड-0381-II) (Paper Code-0381-II)

इकाई – 1

1. मुगलकालीन हिन्दू समाज
2. मुगलकालीन मुस्लिम समाज
3. मुगलकालीन समाज में शासक वर्ग की भूमिका
4. मुगलकाल में स्त्रियों की दशा

इकाई – 2

5. मुगलकालीन स्थापत्यकला
6. मुगलकालीन क्षेत्रीय स्थापत्य कला
7. मुगलकालीन चित्रकला
8. क्षेत्रीय चित्रकला का विकास

इकाई – 3

9. फारसी भाषा एवं साहित्य का विकास
10. हिन्दी साहित्य का विकास
11. संस्कृत साहित्य का विकास
12. उर्दू भाषा एवं साहित्य का विकास

इकाई – 4

13. मुगलकाल में समन्वयवादी संस्कृति का विकास
14. मुगलकाल में संस्कृति के विकास में अकबर का योगदान
15. समन्वयवादी संस्कृति का विघटन और औरंगजेब
16. मुगलकाल में नृत्य एवं संगीतकला का विकास

इकाई – 5

17. मुगलकाल में धार्मिक आंदोलन
18. सामंती व्यवस्था का समाज पर प्रभाव
19. मराठा संस्कृति की विशेषताएं
20. मुगलकाल में ईसाई धर्म का आगमन

संदर्भ ग्रंथ :

1. आर्शीवादी लाल श्रीवास्तव – मध्यकालीन भारत
2. हरिशचन्द्र वर्मा – मध्यकालीन भारत – 2
3. वी.एन. लुनिया – मुगल साम्राज्य का उत्कर्ष
4. ए.एल. श्रीवास्तव – मध्यकालीन संस्कृति
5. दिनेश चन्द्र भारद्वाज – मध्यकालीन संस्कृति
6. पुरीदास एवं चोपड़ा – भारत का सामाजिक, सांस्कृतिक एवं आर्थिक इतिहास भाग – 2
7. एल.पी. शर्मा – मध्यकालीन भारत

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सत्र 2018-19 (जनवरी 2019 से प्रारंभ )  
 एम.ए.अंतिम इतिहास, चतुर्थ सेमेस्टर (M.A. Final. History, Fourth Semester )  
 (खंड-स, आधुनिक भारत) ( Section - C. Modern India)  
 पंचम प्रश्न पत्र (Paper - V)  
 आधुनिक भारत का राजनीतिक एवं प्रशासनिक इतिहास (1858 से 1964 ई. तक)  
 Political and Administrative History of Modern India (1858 -1964 A.D.)  
 (पेपर कोड-0382-II) (Paper Code-0382-II)

इकाई - 1

1. प्रशासनिक परिवर्तन - संवैधानिक सुधारों के संदर्भ में (1858-1892)
2. प्रशासनिक परिवर्तन - संवैधानिक सुधारों के संदर्भ में (1909-1919)
3. प्रशासनिक परिवर्तन - संवैधानिक सुधारों के संदर्भ में (1935-1947)
4. भारतीय गणतंत्र का संविधान

इकाई - 2

5. प्रशासनिक ढांचा - स्थानीय स्वाशासन के संदर्भ में
6. प्रशासनिक ढांचा - लोकसेवा के संदर्भ में
7. प्रशासनिक ढांचा - न्याय व्यवस्था के संदर्भ में
8. प्रशासनिक ढांचा - पुलिस प्रशासन के संदर्भ में

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9. पड़ोसी राज्यों से संबंध - अफगानिस्तान एवं फारस के संदर्भ में
10. पड़ोसी राज्यों से संबंध - नेपाल एवं बर्मा के संदर्भ में
11. देशी रियासतों के साथ संबंध - नीतिगत विस्तार
12. रियासतों का भारतीय संघ में विलीनीकरण

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13. भारतीय राष्ट्रवाद का उदय - अवधारणाएं एवं गतिविधियां
14. 1919 तक संगठित राष्ट्रवाद की प्रवृत्तियां
15. कृषक, श्रमिक एवं क्रांतिकारी आंदोलन
16. गांधीवादी आंदोलन - विचारधारा, स्वरूप एवं कार्यक्रम

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17. साम्प्रदायिकता का उदय एवं विकास - मुस्लिम लीग की स्थापना तक
18. साम्प्रदायिकता का विकास - भारत विभाजन तक
19. स्वाधीनता की प्राप्ति
20. भारत की विदेश नीति - गुटनिरपेक्षता

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1. एल.पी.शर्मा – आधुनिक भारत
2. रजनी पाम दत्त – इंडिया टुडे
3. प्रताप सिंह – आधुनिक भारत का इतिहास
4. एम.एस. जैन – आधुनिक भारत
5. सुमित सरकार – आधुनिक भारत का इतिहास
6. बी.एल.ग्रोवर एवं यशपाल – आधुनिक भारत का इतिहास
7. एग्नेस ठाकुर – भारत का इतिहास 1757-1857
8. वीरकेश्वर प्रसाद सिंह – भारतीय राष्ट्रीय आंदोलन एवं संवैधानिक विकास
9. एस.आर. शर्मा – मेकिंग ऑफ मॉडर्न इंडिया
10. बी.बी. मिश्र – सेंट्रल एडमिनिस्ट्रेशन ऑफ ईस्ट इंडिया कंपनी
11. शेखर बंधोपाध्याय – प्लासी से विभाजन तक
12. विपन चन्द्र – आधुनिक भारत का इतिहास
13. बी.डी. महाजन – मॉडर्न इंडियन हिस्ट्री 1707 टू प्रजेन्ट डे
14. के.सी. चौधरी – हिस्ट्री ऑफ मॉडर्न इंडिया
15. कौलेश्वर राय – आधुनिक भारत 1757-1950



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 एम.ए.अंतिम ,इतिहास चतुर्थ सेमेस्टर (M.A. Final.I.History, IV- Sem.)  
 (खंड-स,आधुनिक भारत) ( Section-C,Modern India)  
 षष्ठम प्रश्न पत्र (Paper - VI)  
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 Economical, Social and Cultural History of Modern India (1858 A.D. to 1964 A.D.)  
 (पेपर कोड-0383-II) (Paper Code-0383-II)

इकाई - 1

1. ग्रामीण अर्थव्यवस्था - कृषि की स्थिति
2. ऋण ग्रस्तता एवं बेरोजगारी
3. शहरी अर्थव्यवस्था - औद्योगिकीकरण का विकास 1858-1947
4. वृहद पैमाने के उद्योग

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5. औद्योगिक श्रम, श्रम संघों का विकास व श्रमिक आंदोलन
6. जनसंख्या
7. रेल्वे का विकास एवं भारतीय अर्थव्यवस्था
8. रेलपथ के सामाजिक, आर्थिक प्रभाव

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9. भूमि सुधार - 1964 तक
10. नियोजित अर्थव्यवस्था-पंचवर्षीय योजनाएं
11. योजनाओं के आर्थिक परिणाम
12. आधुनिक उद्योगों की वृद्धि

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13. आर्य समाज, प्रार्थना समाज
14. थियोसोफिकल सोसाइटी, रामकृष्ण मिशन
15. अलीगढ़ आंदोलन
16. निम्न जातीय आंदोलन, सिक्ख सुधार आंदोलन

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17. ब्रिटिश शासन काल में नारी उत्थान के प्रयास
18. आधुनिक शिक्षा का विकास
19. समाचार पत्रों का विकास
20. स्वास्थ्य एवं विज्ञान - तकनीकी विकास

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2. एल.पी.शर्मा – आधुनिक भारत
3. एस.आर.शर्मा – मेकिंग ऑफ मॉडर्न इंडिया
4. ए.आर.देसाई – भारतीय राष्ट्रवाद की सामाजिक पृष्ठभूमि
5. आर.सी. दत्त – इकोनामिक हिस्ट्री ऑफ इंडिया
6. विपिन चंद्र – भारतीय स्वतंत्रता संग्राम का इतिहास 1857–1947
7. विपिन चंद्र – आजादी के बाद भारत (1947–2000)
8. सुमित सरकार – आधुनिक भारत
9. एम.ए. जैन – आधुनिक भारत का इतिहास
10. प्रताप सिंह – आधुनिक भारत का सामाजिक आर्थिक इतिहास
11. प्रताप सिंह – आधुनिक भारत, 3 खंड
12. एग्नेस ठाकुर – भारत का आर्थिक इतिहास 1757–1950
13. पुरी दास ठाकुर – भारत का सामाजिक, आर्थिक एवं सांस्कृतिक इतिहास
14. अरूण भट्टाचार्य – हिस्ट्री ऑफ मॉडर्न इंडिया

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एम.ए.अंतिम इतिहास ,चतुर्थ सेमेस्टर (M.A. Final.History. Fourth Semester )

खण्ड -स, प्रश्न पत्र (वैकल्पिक -01) ( Section - C, Paper- Optional - 01)

भारतीय राष्ट्रीय आंदोलन का इतिहास (1922 से 1947 ई. तक)

History of Indian National Movement (1922 to 1947 A.D.)

(पेपर कोड-0384-II) (Paper Code-0384-II)

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1. स्वराज्य दल
2. साइमन कमीशन का विरोध एवं नेहरू रिपोर्ट
3. सविनय अवज्ञा के समय भारत की राजनीतिक स्थिति
4. सविनय अवज्ञा आंदोलन

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5. गोलमेज सम्मेलन
6. पूना समझौता एवं श्वेत पत्र
7. प्रांतीय स्वायत्ता का क्रियान्वयन
8. राजनीतिक गतिरोध 1940-45

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9. क्रांतिकारी आंदोलन द्वितीय चरण
10. भारतीय राजनीति में वामपंथी विचारधारा
11. कृषक एवं जनजातीय आंदोलन
12. श्रमिक आंदोलन

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13. व्यक्तिगत सत्याग्रह
14. क्रिप्स मिशन
15. भारत छोड़ो आंदोलन
16. भारतीय राजनीति में गांधीजी का योगदान

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17. भारत विभाजन की योजनाएं
18. केबिनेट मिशन एवं अंतरिम सरकार
19. सुभाष चंद्र बोस एवं आजाद हिन्द फौज
20. सांप्रदायिक राजनीति का विकास एवं भारत विभाजन



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1. बी.एल. ग्रोवर – आधुनिक भारत का नवीन मूल्यांकन
2. कौलेश्वर राय – आधुनिक भारत
3. सुमित सरकार – आधुनिक भारत
4. बिरकेश्वर प्रसाद सिंह – भारतीय राष्ट्रीय आंदोलन एवं संवैधानिक विकास
5. पुखराज जैन – भारत का स्वतंत्रता संग्राम एवं राजनैतिक विकास
6. डी.सी. गुप्ता – भारत का राष्ट्रीय आंदोलन
7. विपन श्रीवास्तव – भारतीय स्वतंत्रता संग्राम का इतिहास
8. योगेन्द्रा चंद्रा – हिस्ट्री ऑफ फ्रीडम मूवमेंट इन इंडिया
9. यशपाल एवं ग्रोवर – आधुनिक भारत
10. रामलखन शुक्ल – आधुनिक भारत का इतिहास



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 खण्ड-स, प्रश्न पत्र (वैकल्पिक-02) ( Section -C.Paper Optional -02)  
 भारत का सांस्कृतिक इतिहास (1526 से 1950 ई. तक)  
 Cultural History of India (1526 A.D. to 1950 A.D.)  
 (पेपर कोड-0385-II) (Paper Code-0385-II)

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1. भारतीय संस्कृति में अकबर का योगदान
2. मुगलकालीन समाज
3. मुगलकालीन स्थापत्य
4. मुगलकालीन चित्रकला

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5. मुगलकालीन संगीतकला
6. मुगलकालीन साहित्य
7. दक्षिण भारतीय सांस्कृतिक जीवन
8. दक्षिण भारत की कला एवं स्थापत्यकला

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9. यूरोपियों के आगमन का आर्थिक प्रभाव
10. भारतीय संस्कृति पर पाश्चात्य प्रभाव
11. भारतीय संस्कृति में ईसाई मिशनरियों का योगदान
12. यूरोपीय प्राच्यवादियों का भारतीय संस्कृति में योगदान

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13. राजा राममोहन राय एवं ब्रम्ह समाज
14. आर्य समाज तथा थियोसोफिकल सोसाइटी
15. रामकृष्ण मिशन एवं विवेकानंद
16. मुस्लिम समाज सुधार आंदोलन

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17. ब्रिटिश भारत में नारी की स्थिति - सामाजिक कुरीतियां
18. ब्रिटिश भारत में नारी सुधार के प्रयास
19. कंपनी शासन काल में शिक्षा का विकास 1857 तक
20. ब्रिटिश शासन काल में शिक्षा का विकास 1858 से 1947

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1. ए.एल. श्रीवास्तव – सल्तनतकालीन भारत
2. हरिशचन्द्र वर्मा – मध्यकालीन भारत – भाग – 1 एवं 2
3. राजबली पांडे – सूफीज्म
4. पं. सुन्दर लाल शर्मा – भारत में अंग्रेजी राज
5. डाडवेल – कैम्ब्रिज हिस्ट्री ऑफ इंडिया
6. रोमिला थापर – आधुनिक भारत का इतिहास
7. बी.एन. लुणिया – मुगल साम्राज्य का उत्कर्ष
8. शिवशंकर शर्मा – भारतीय संस्कृति
9. बी.एन. लुणिया – भारतीय संस्कृति
10. पुरी, दास, चोपड़ा – भारत का सामाजिक, आर्थिक सांस्कृतिक इतिहास, खंड 2, 3।



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 खण्ड-स,प्रश्न पत्र (वैकल्पिक -03)( Section -C, Paper- Optional -03)  
 भारत की केन्द्रीय तथा प्रांतीय शासन व्यवस्था  
**Central and Provincial Administrative System of India**  
 (पेपर कोड-0386-II A) (Paper Code-0386-II A)

## इकाई- 1

1. लोकपाल
2. भाषाएं एवं राजभाषा आयोग
3. राष्ट्रीय अनुसूचित जाति एवं जनजाति आयोग
4. सूचना आयोग एवं सूचना का अधिकार

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5. राज्यपाल - नियुक्ति, शर्तें एवं शक्तियां
6. मुख्यमंत्री एवं मंत्रिपरिषद तथा उनके कार्य
7. विधान परिषद एवं विधान सभा
8. संघ राज्य क्षेत्र

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9. उच्च न्यायालय
10. अधीनस्थ न्यायालय
11. महाधिवक्ता
12. राज्य लोक सेवा आयोग

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13. नौकर शाही का विकास
14. पंचायती राज संस्थाएं
15. नगरीय स्वायत्त शासन व्यवस्था
16. शासन में दबाव समूह

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17. राज्य के मुख्य सचिव एवं उनकी प्रशासन में भूमिका
18. राज्य में कानून व्यवस्था एवं पुलिस प्रशासन
19. संभाग एवं संभागायुक्त, उनके कार्य तथा शक्तियां
20. जिला एवं जिला दंडाधिकारी, उनके कार्य तथा शक्तियां

## अनुशंसित पुस्तकें :-

- डी.डी. बसु - भारत का संविधान एक परिचय
- हिर मोहन जैन - भारतीय शासन और राजनीति
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- R.C.Agrawal - Indian Political System
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- A.S.Narang - Indian Government and politics
- G.Austin - The Indian Constitution
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 खण्ड-स,प्रश्न पत्र (वैकल्पिक-04) (Section-C,Paper Optional -04)  
 पर्यटन सिद्धान्त एवं व्यवहार इतिहास के संदर्भ में  
 Tourism Theory and Principles In Reference of History  
 (पेपर कोड-0387-II) (Paper Code-0387-II)

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1. पर्यटन का इतिहास से संबंध
2. पर्यटन का संस्कृति से संबंध
3. पर्यटन विकास के कारक
4. पर्यटन और पर्यावरण

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5. पर्यटन उद्योग एवं विपणन
6. विश्व के प्रसिद्ध प्राचीन धरोहर-मिश्र के पिरामिड ,चीन की दीवार
7. विश्व के प्रमुख धार्मिक पर्यटन केन्द्र-अंकोरवाट,बोरोबुदर ,जेरुसलम,मक्का मदीना
8. विश्व के प्राचीन शिक्षा केन्द्र-तक्षशिला ,नालंदा,एथेन्स

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9. पर्यटन में राष्ट्रीय उद्यानों का महत्व
10. भारत में प्रमुख राष्ट्रीय उद्यान
11. उत्तर भारत के धार्मिक पर्यटन स्थल -कैदारनाथ,अमृतसर,बोधगया,माउंटआबू
12. दक्षिण भारत के धार्मिक पर्यटन स्थल -तिरुपति,मदुरै, रामेश्वरम,कांचीपुरम

इकाई - 4

13. उत्तर भारत के प्रमुख ऐतिहासिक पर्यटन स्थल
14. दक्षिण भारत के प्रमुख ऐतिहासिक पर्यटन स्थल
15. पूर्वी भारत के प्रमुख ऐतिहासिक पर्यटन स्थल
16. पश्चिमी भारत के प्रमुख ऐतिहासिक पर्यटन स्थल

इकाई - 5

17. छत्तीसगढ़ के प्रमुख ऐतिहासिक पर्यटन स्थल
18. छत्तीसगढ़ के प्रमुख धार्मिक पर्यटन स्थल
19. छत्तीसगढ़ के प्रमुख प्राकृतिक पर्यटन स्थल
20. छत्तीसगढ़ में पर्यटन की सुविधाएं एवं समस्याएं

संदर्भ ग्रंथ :

1. जगमोहन नेगी - राष्ट्रीय संस्कृति, संपदा, सांस्कृतिक पर्यटन एवं पर्यावरण
2. रामआचार्य - टूरिज्म एंड कल्चरल हेरीटेज ऑफ इंडिया
3. ताज रावत - पर्यटन का प्रभाव एवं प्रबंधन
4. शिवाकांत बाजपेयी - सिरपुर - पुरातत्व एवं पर्यटन
5. पर्यटन विभाग - भारत शासन एवं छत्तीसगढ़ शासन द्वारा प्रकाशित सामग्री

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**एम.ए.पूर्व (इतिहास)**  
**वार्षिक पद्धति**  
**सत्र -2018-19**

नोट:- तीन अनिवार्य प्रश्न पत्रों के अतिरिक्त परीक्षार्थियों को कोई एक वैकल्पिक प्रश्न पत्र चयन करना होगा। प्रत्येक प्रश्न पत्र 100-100 अंकों के होंगे।

| क्रम प्रश्न पत्र                     | प्रश्नपत्र का नाम                                | कोड संख्या | पूर्णांक |
|--------------------------------------|--------------------------------------------------|------------|----------|
|                                      | <b>अनिवार्य प्रश्नपत्र</b>                       |            |          |
| 1. प्रश्न प्रश्नपत्र                 | इतिहास पद्धति एवं इतिहास लेखन                    | (0370)     | 100      |
| 2. द्वितीय प्रश्नपत्र                | बीसवीं शताब्दी का विश्व                          | (0371)     | 100      |
| 3. तृतीय प्रश्नपत्र                  | छत्तीसगढ़ का इतिहास                              | (0372)     | 100      |
|                                      | <b>वैकल्पिक प्रश्नपत्र</b>                       |            |          |
| 4. चतुर्थ प्रश्नपत्र<br>वैकल्पिक (अ) | वैकल्पिक (अ) ग्रेट ब्रिटेन का इतिहास (1875-1945) | (0373)     | 100      |
| वैकल्पिक (स)                         | वैकल्पिक (स) चीन और जापान का इतिहास ( 1800-1950) | (0375)     | 100      |
| वैकल्पिक (द)                         | वैकल्पिक (द) भारतीय इतिहास में नारी              |            | 100      |
|                                      |                                                  |            |          |
|                                      |                                                  |            |          |

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एम.ए.पूर्व (इतिहास) वार्षिक पद्धति  
सत्र - 2018-19  
प्रथम प्रश्न पत्र (अनिवार्य)  
इतिहास पद्धति एवं इतिहास लेखन  
(पेपर कोड-0370)

इकाई-1

1. इतिहास का अर्थ, परिभाषा एवं विस्तार सामग्री संकलन तथा तथ्यों की व्याख्या
2. इतिहास में कार्य कारण संबंध
3. इतिहास में वस्तुनिष्ठता
4. इतिहास का अन्य विषयों से संबंध

इकाई-2

5. इतिहास के प्रमुख सिद्धान्त- चक्रवादी, तुलनात्मक, आधुनिकोत्तर
6. इतिहास के प्रमुख सिद्धान्त-ऐतिहासिक भौतिकवाद, समाजशास्त्रीय, सापेक्षवाद
7. इतिहास लेखन की परम्पराएं-ग्रीक-रोमन, चीनी, अरबी तथा पश्चिम
8. इतिहास लेखन की परम्पराएं- प्राचीन भारतीय, मध्यकालीन तथा आधुनिक

इकाई-3

9. इतिहास की धार्मिक व्याख्या
10. इतिहास की आदर्शवादी व्याख्या
11. इतिहास की राष्ट्रवादी व्याख्या
12. इतिहास की साम्राज्यवादी व्याख्या

इकाई-4

13. इतिहास की मार्क्सवादी व्याख्या
14. सबालर्टन अथवा जनवादी इतिहास
15. भारतीय इतिहास की विषयवस्तु -आर्थिक इतिहास
16. भारतीय इतिहास की विषयवस्तु- कृषक एवं श्रमिक इतिहास

इकाई-5

17. जातीय एवं जनजातिय इतिहास
18. सामाजिक - भारतीय -सांस्कृतिक इतिहास
19. विज्ञान एवं प्रौद्योगिकी इतिहास
20. भारतीय इतिहास लेखन में वामपंथी -दक्षिणपंथी वाद - विवाद

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## अनुशासित ग्रन्थ सूची:-

1. E.H. Carr : What is Sistory
2. R.G. Collingwood : The idea of History
3. S.P. Sen : History and Historiography in Modern India
4. R.C. Majumdar : Historiography in Modern Indias
9. राधेशरण : इतिहास चिन्तन, पद्धति एवं इतिहास लेखन
10. रामकुमार बेहार एवं ऋषिराज मंडिलकार : इतिहास पद्धति एवं इतिहास लेखन
11. बी.के. श्रीवास्तव : इतिहास लेखन: अवधारण, विधाएं एवं साधन
12. के.एल. खुराना एवं डॉ. आर.के. बंसल : धारणाएं तथा पद्धतियां
13. झारखंड चौबे : इतिहास दर्शन
14. परमानन्द सिंह :इतिहास दर्शन
15. गोविन्द चन्द्र शर्मा : इतिहास स्वरूप एवं सिद्धान्त
16. मानिक लाल गुप्ता : इतिहास स्वरूप, अवधारणाएं एवं उपयोगिता

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एम.ए.पूर्व (इतिहास) ,वार्षिक पद्धति 2018-19  
द्वितीय प्रश्नपत्र (अनिवार्य)  
बीसवीं शताब्दी का विश्व  
(पेपर कोड-0371)

इकाई 1

1. पूंजीवाद एवं साम्राज्यवाद का विकास इंग्लैंड, फ्रांस, जर्मनी तथा जापान
2. उदारवाद एवं समाजवाद
3. पूर्वी समस्या (1900-1914)
4. कैसर विलियम की विश्व राजनीति

इकाई 2

5. प्रथम विश्वयुद्ध – कारण, घटनाएं, परिणाम
6. पेरिस शांति संधियां
7. रूसी क्रांति (1917)
8. राष्ट्रसंघ- उपलब्धियां एवं असफलताएं

इकाई 3

9. विश्व आर्थिक मंदी- न्यू डील
10. इटली में फासीवाद
11. जर्मनी में नाजीवाद
12. जापान में सैन्यवाद

इकाई 4

13. अरब राष्ट्रावाद
14. द्वितीय विश्वयुद्ध – कारण, घटनाएं, परिणाम
15. चीनी क्रांतियां (1911 से 1949 तक)
16. हिन्दचीन एवं हिन्देशिया में राष्ट्रीय आंदोलन

इकाई 5

17. शीत युद्ध – संधियां, तनाव, शत्रुता तथा प्रभाव
18. गुटनिरपेक्ष आंदोलन तथा तृतीय विश्व युद्ध
19. संयुक्त राष्ट्र संघ
20. अंतर्राष्ट्रीय समस्याएं – फिलिस्तीन, क्यूबा, कोरिया, विएतनाम



अनुशंसित ग्रन्थ सूचि :-

1. दीनानाथ वर्मा : आधुनिक विश्व का इतिहास
2. एम.एल. शर्मा: आधुनिक युरोप का इतिहास
3. विनाके : सुदूर पूर्व का इतिहास
4. के.एल. खुराना :विश्व का इतिहास
5. के.एल. खुराना : एशिया का आधुनिक इतिहास
6. H.G. Wells : *History of the Modern World.*
7. B.V. Rao : History of World
8. D.G.E. Hall : South East Asia

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एम.ए.पूर्व (इतिहास), वार्षिक पद्धति 2018-19  
 तृतीय प्रश्न पत्र (अनिवार्य)  
 छत्तीसगढ़ का इतिहास  
 (पेपर कोड-0372)

इकाई 1

1. छत्तीसगढ़ का परिचय, सीमाएं, नामकरण
2. प्राचीन काल में छत्तीसगढ़ – मौर्य, गुप्त, वाकाटक
3. क्षेत्रीय राजवंश – नलवंश, राजर्षितुल्य, शरभ पुरीय, पांडु वंशीय, छिंदकनाग वंश सोमवंशी
4. मध्यप्रदेश के कल्चुरी

इकाई 2

5. छत्तीसगढ़ के कल्चुरी
6. कल्चुरी युगीन छत्तीसगढ़ की सामाजिक, आर्थिक, सांस्कृतिक दशा
7. छत्तीसगढ़ में भोंसले शासन
8. मराठा कालीन, छत्तीसगढ़ की सामाजिक, आर्थिक, सांस्कृतिक दशा

इकाई 3

9. छत्तीसगढ़ में ब्रिटिश शासन
10. ब्रिटिश कालीन छत्तीसगढ़ का सामाजिक, आर्थिक, सांस्कृतिक विकास
11. छत्तीसगढ़ की जमीदारियां एवं करद राज्य
12. 1857 का विप्लव (छत्तीसगढ़, उड़ीसा, सागर नर्मदा क्षेत्र, नागपुर)

इकाई 4

13. छत्तीसगढ़ में राजनीतिक जागरण 1920 तक
14. छत्तीसगढ़ में राष्ट्रीय आन्दोलन (1920-1947)
15. छत्तीसगढ़ में किसान, मजदूर, जनजातीय आन्दोलन
16. छत्तीसगढ़ ~~प्रान्त~~ <sup>का</sup> एवं रियासतों का विलीनीकरण

इकाई 5

17. छत्तीसगढ़ में धार्मिक आस्थाएं – वैष्णव, शैव, शाक्त, जैन, कबीरपंथ, सतनाम पंथ, इस्लाम धर्म, इसाई धर्म
18. छत्तीसगढ़ की लोक सांस्कृति
19. स्वतंत्रोत्तर छत्तीसगढ़ का आर्थिक विकास



अनुशासित ग्रन्थ सूची :

1. प्यारे लाल गुप्त : प्राचीन छत्तीसगढ़ ,रविशंकर शुक्ल वि.वि. प्रकाशन
2. भगवान सिंह वर्मा : छत्तीसगढ़ का इतिहास
3. अशोक शुक्ला : छत्तीसगढ़ का राजनैतिक इतिहास एवं राष्ट्रीय आन्दोलन
4. शांता शुक्ला : छत्तीसगढ़ का सामाजिक एवं आर्थिक इतिहास
5. पी.एल. मिश्रा : मराठा कालीन छत्तीसगढ़
6. पी.एल. मिश्रा : दक्षिण कोशल का प्राचीन इतिहास
7. एल.एस. निग्राम : दक्षिण कोशल का प्राचीन प्रकरण
8. बी.बी. मिराशी : कल्चुरी नरेश और उनका काल
9. जे. आर. वर्ल्यानी एवं वासुदेव साहसी : छत्तीसगढ़ का राजनीतिक एवं सांस्कृतिक इतिहास –प्रारंभ से 1947 तक
10. मदनलाल गुप्ता : छत्तीसगढ़ दिग्दर्शन
11. डी.पी. मिश्र : मध्यप्रदेश में स्वाधीनता आन्दोलन का इतिहास
12. के.के. अग्रवाल : बीसवीं शताब्दी का छत्तीसगढ़
13. ऋषिराज पाण्डेय : छत्तीसगढ़ : दक्षिण कोशल के कल्चुरी
14. M.A. Khan: History of British Administrative System in India
15. R.M. Sinha : Bhoslas of Nagpur : The Last Phase
16. Sabeeha Yasmin Khan : Civil Disobedience Movement in Chhattisgarh



एम.ए.पूर्व इतिहास , वार्षिक पद्धति 2018-19  
चतुर्थ प्रश्न पत्र (वैकल्पिक- अ)  
ग्रेट ब्रिटेन का इतिहास (1875-1945)  
(पेपर कोड -0373)

इकाई 1

1. 1815 से 1822 तक की आंतरिक समस्यायें
2. केसलरे और केनिंग की विदेश नीति
3. 1822 से 1830 तक इंग्लैंड की आंतरिक स्थिति
4. 1822 का सुधार अधिनियम

इकाई 2

5. ब्रिटेन में उदारवाद का उदय और विकास
6. चार्टिस्ट आंदोलन
7. ग्रेट ब्रिटेन की विदेश नीति (1830 से 1841)
8. सर राबर्ट पील

इकाई 3

9. ग्रेट ब्रिटेन और पूर्वी समस्या (1828 से 1856)
10. पामस्टन युग
11. नवीन टोरीवाद
12. 1867 एवं 1885 के संसदीय सुधार

इकाई 4

13. ग्लेड स्टोन
14. बेंजामिन डिजरायली
15. चेम्बरलेन का साम्राज्यवाद
16. ग्रेट ब्रिटेन की वैदेशिक नीति (1902-1914)

इकाई 5

17. ग्रेट ब्रिटेन और प्रथम विश्वयुद्ध
18. ग्रेट ब्रिटेन की गृह नीति (1919-1939)
19. ग्रेट ब्रिटेन की वैदेशिक नीति (1919-1939)
20. ग्रेट ब्रिटेन और द्वितीय विश्वयुद्ध

## अनुशासित ग्रंथ सूची

1. J.A.R. Marriott : England since Waterloo
2. J.A.R. Marriott : Modern England
3. G.M. Trevelyan : Social History of England
4. Ramsay Muir : History of British Common Wealth (Vol. 2)
5. G.M. Trevelyan : England in the nineteenth century & after
7. एल.पी. शर्मा : इंग्लैण्ड का इतिहास
8. विद्याधर महाजन : इंग्लैण्ड का इतिहास



एम.ए.पूर्व इतिहास , वार्षिक पद्धति 2018-19  
चतुर्थ प्रश्न पत्र (वैकल्पिक-स)  
चीन और जापान का इतिहास (1800-1950)  
(पेपर कोड-0357)

इकाई 1

1. चीन और यूरोपियनों का आगमन
2. अफीम युद्ध
3. जापान में शोगून शासन व्यवस्था
4. मेईजी पुनर्स्थापना

इकाई 2

5. चीन में विदेशियों का हस्तक्षेप
6. जापान का औद्योगीकरण
7. चीन जापान युद्ध
8. बॉक्सर विद्रोह

इकाई 3

9. आंग्ल जापान संधि
10. रूस जापान युद्ध
11. 1911 की चीनी क्रांति
12. प्रथम विश्व युद्ध और जापान

इकाई 4

13. चीन में गणराज्य
14. कोमिन्तांग और उनकी देन
15. जापान में सैनिकवाद का विकास
16. मंचुरिया

इकाई 5

17. चीन में साम्यवाद
18. जापान में साम्राज्यवाद (1932-1939)
19. चीन और द्वितीय विश्व युद्ध
20. जापान और द्वितीय विश्व युद्ध

अनुशंसित ग्रंथ सूची :

1. बिनाके : सुदूर पूर्व का इतिहास
2. सत्यकेतु विद्यालंकर : एशिया का इतिहास
3. क्लाउड : सुदूर पूर्व का इतिहास
4. दीनानाथ वर्मा : एशिया का इतिहास
5. H.M. Vinacle : A History of the far east in Modern Times
6. F.H.B. Clyde : The Far East
7. Goodridge : A Short History of Far East
8. A.C. Gupta : A History of China
9. Buss : The Far East





एम.ए.पूर्व इतिहास , वार्षिक पद्धति 2018-19  
चतुर्थ प्रश्न पत्र (वैकल्पिक-द)  
भारतीय इतिहास में नारी

इकाई 1

1. नारी अध्ययन की विचारधारा उदारवादी, समाजवादी, मार्क्सवादी, मनोवैज्ञानिक
2. नारी अध्ययन के स्रोत – ऐतिहासिक स्रोत
3. नारी अध्ययन गैर अभिलेखागारीय स्रोत
4. नारीअध्ययन का महत्व एवं उपयोगिता

इकाई 2

5. नारी स्थिति वैदिक युग से राजपूत काल
6. बौद्ध एवं जैन धर्म में महिलाओं की स्थिति
7. इस्लाम एवं सिक्ख धर्म में महिलाओं की स्थिति
8. भक्ति आंदोलन और महिलाएं

इकाई 3

9. प्राचीन काल में महिला शिक्षा
10. मध्यकालीन भारत में महिला शिक्षा
11. औपनिवेश काल में महिला शिक्षा
12. स्वतंत्रतोर भारत में महिला शिक्षा

इकाई 4

13. मध्यकालीन राजनीति एवं महिलाएं
14. 19वीं. एवं 20वीं शताब्दी के नारी संगठन
15. भारतीय स्वतंत्रता आंदोलन और महिलाएं
16. स्वतंत्रता के पश्चात् राजनीति और महिलाएं

इकाई 5

17. स्वतंत्रोत्तर शहर में महिलाओं की वैधानिक स्थिति
18. महिलाएं – कला, साहित्य, खेलकूद के क्षेत्र में
19. कामकाजी महिलाएं – स्वावलंबन एवं सशक्तिकरण
20. महिलाओं के प्रति हिंसा व अपराध तथा संवैधानिक प्रावधान

संदर्भ ग्रंथः—

1. कमलेश्वर प्रसाद — भारत का इतिहास 1,2,3
2. सुगम आनंद — भारतीय इतिहास में नारी
3. के.सी. श्रीवास्तव — प्राचीन भारत का इतिहास तथा संस्कृति
4. विपिन चंद्र — आजादी के बाद का भारत
5. रामधारी सिंह दिनकर — संस्कृति के चार अध्याय
6. पुरी, दास एवं चोपड़ा — भारत का सामाजिक, आर्थिक, सांस्कृतिक इतिहास
7. प्रताप सिंह — आधुनिक भारत का सामाजिक, आर्थिक, इतिहास
8. दिनेशचंद्र भारद्वाज — मध्यकालीन संस्कृति
9. ए. एल. श्रीवास्तव — मध्यकालीन संस्कृति
10. नीतू केंग — इंडियन वीमेन एक्टिविटीस
11. सी.एन. मंगल एवं यशोदा भट्ट — बीयांड द थ्रेस होल्ड इंडियन वीमेन आन द मुक्
12. कौरोलिय एम बायर्ली और कारेन रास — महिलायें और संचार माध्यम



**एम.ए.अंतिम इतिहास**  
**वार्षिक पद्धति**  
**सत्र : 2017-18**

नोट:- एम.ए. (अंतिम) में निम्नलिखित खण्ड ब, एवं स, में से कोई दो प्रश्न पत्र छात्रों को चयनित करना होगा तथा नीचे दिए गए तीन वैकल्पिक प्रश्नपत्रों में से परीक्षार्थियों को कोई भी दो वैकल्पिक प्रश्नपत्रों का चयन करना होगा। प्रत्येक प्रश्नपत्र 100-100 अंकों के होंगे।

| क्रम प्रश्न पत्र       | प्रश्नपत्र का नाम                                             | कोड संख्या | पूर्णांक |
|------------------------|---------------------------------------------------------------|------------|----------|
|                        | <b>खण्ड "ब" मध्यकालीन भारत</b>                                |            |          |
| 1. प्रश्न प्रश्नपत्र   | मध्यकालीन भारतीय राजनय एवं अर्थव्यवस्था (1200 से 1750 ई तक)   | (0380)     | 100      |
| 2. द्वितीय प्रश्नपत्र  | मध्यकालीन समाज एवं संस्कृति (1200 से 1750 ई. तक)              | (0381)     | 100      |
|                        | <b>खण्ड "स" आधुनिक भारत</b>                                   |            |          |
| 1. प्रश्न प्रश्नपत्र   | आधुनिक भारत (1757ई. से 1857ई. तक)                             | (0382)     | 100      |
| 2. द्वितीय प्रश्नपत्र  | आधुनिक भारत (1857ई. से 1964ई. तक)                             | (0383)     | 100      |
|                        | <b>वैकल्पिक प्रश्नपत्र</b>                                    |            |          |
| 1. वैकल्पिक प्रश्नपत्र | भारतीय राष्ट्रीय आन्दोलन का इतिहास<br>(1882 ई. से 1947 ई. तक) | (0384)     | 100      |
| 2. वैकल्पिक प्रश्नपत्र | भारत का सांस्कृतिक इतिहास - प्रारंभ से 1950 ई. तक             | (0385)     | 100      |
| 3. वैकल्पिक प्रश्नपत्र | पर्यटन सिद्धांत एवं व्यवहार (इतिहास से संदर्भ तक)             |            | 100      |

*Mul*

एम.ए.अंतिम इतिहास, वार्षिक पद्धति 2018-19  
 (खंड-ब) मध्यकालीन भारत  
 प्रथम प्रश्न पत्र  
 मध्यकालीन भारतीय राजनय एवं अर्थव्यवस्था (1200 से 1750 ई.)  
 (पेपर कोड-0380)

इकाई-1

1. सल्तनत कालीन इतिहास के स्रोत
2. मुगल कालीन इतिहास के स्रोत
3. मध्यकालीन स्थापत्य व शिल्पकला
4. मराठा इतिहास के स्रोत

इकाई-2

5. सल्तनत कालीन राजनय का स्वरूप - सिद्धांत, दबाव समूह तथा क्षेत्रीय विशेषताएं
6. मुगल कालीन राजनय - दैवीय अधिकार सिद्धांत
7. केन्द्रीय प्रशासन - सल्तनत कालीन, मुगलकालीन
8. प्रांतीय व्यवस्था - इक्ता, अमरम, मनसब व जागीर

इकाई-3

9. सल्तनत में सुल्तान एवं अमीरों के बीच संघर्ष
10. सल्तनत कालीन क्षेत्रीय राज्य
11. मुगलकालीन दरबारी राजनीति, संघर्ष, दखन के मुस्लिम राज्यों का प्रतिरोध
12. मराठा राज्य की स्थापना एवं विकास

इकाई-4

13. कृषि अर्थव्यवस्था एवं भूराजस्व व्यवस्था
14. शिल्प व उद्योग
15. आंतरिक व्यापार
16. विदेशी व्यापार

इकाई-5

17. नगरों का उदय - जनानिकी परिवर्तन, नगरीय प्रशासन
18. मध्यकालीन मुद्राएं एवं बैंकिंग
19. नए व्यापारिक वर्गों का उदय

20. कृषि एवं उद्योग में तकनीकी परिवर्तन

संदर्भ ग्रंथ—

1. सल्तनतकालीन भारत — ए.एल. श्रीवास्तव
2. मध्यकालीन भारत — एल.पी. शर्मा
3. मध्यकालीन भारत (भाग एक) — हरिशचंद्र वर्मा
4. मध्यकालीन भारत (भाग दो) — हरिशचंद्र वर्मा
5. मध्यकालीन संस्कृति — ए.एल. श्रीवास्तव
6. संस्कृति के चार अध्याय — रामधारी सिंह दिनकर
7. सुफीज्म — राजबली पांडे
8. मध्यकालीन भारतीय इतिहास — बी.के. पंजाबी
9. भारत का समाजिक, आर्थिक, मारक्यत्व संस्कृतिक इतिहास (भाग-2) — पुरी, दास, चोपड़ा
10. मध्यकालीन इतिहासकार — हेरम्ब चतुर्वेदी

*Handwritten signature*

एम.ए.अंतिम इतिहास, वार्षिक पद्धति 2018-19  
(खंड-ब) द्वितीय प्रश्न पत्र  
मध्यकालीन समाज एवं संस्कृति (1200-1750 ई. तक)  
(पेपर कोड-0381)

इकाई-1

1. मध्यकालीन ग्रामीण समाज- संगठन एवं परिवर्तन
2. मध्यकालीन नगरीय समाज - नए सामाजिक वर्गों का अंतरासाम्राज्यिक संबंध
3. स्त्रियों की दशा
4. मध्यकालीन सामाजिक जीवन

इकाई-2

6. भक्ति आंदोलन- निर्गुणवादी सम्प्रदाय कबीर व नानक
7. भक्ति आंदोलन - सगुणवादी कृष्ण भक्ति तथा राम भक्ति तथा राम भक्ति शाखाएं
8. भक्ति आंदोलन की क्षेत्रीय विशेषताएं
9. सूफीवाद सिद्धांत व व्यवहार, सूफी सिलसिले

इकाई-3

9. सल्तनकालीन स्थापत्य
10. मुगलकालीन स्थापत्य
11. क्षेत्रीय स्थापत्य - विजय नागर, बहमनी, जौनपुर, गुजरात, मालबा, राजपुताना
12. मध्यकाल में चित्रकला, संगीत व नृत्य

इकाई-4

13. फारसी भाषा एवं साहित्य
14. हिन्दी साहित्य का विकास
15. संस्कृत साहित्य का विकास
16. क्षेत्रीय साहित्य का विकास

इकाई-5

17. मध्यकालीन भारतीय समाज में शासक वर्गों की भूमिका
18. धार्मिक एवं साम्प्रदायिक समुदायों का प्रादुर्भाव
19. भारतीय सभ्यता पर इस्लामिक प्रभाव



## 20. समन्वयवादी संस्कृति का विकास

## संदर्भ ग्रंथ –

1. सल्तनतकालीन भारत– ए.एल. श्रीवास्तव
2. मध्यकालीन भारत– एल.पी. शर्मा
3. मध्यकालीन भारत (भाग एक) – हरिशचन्द्र वर्मा
4. मध्यकालीन भारत (खंड दो) – हरिशचन्द्र वर्मा
5. मध्यकालीन संस्कृति – ए.एल. श्रीवास्तव
6. संस्कृति के चार अध्याय – रामधारी सिंह दिनकर
7. सुफीज्य – राजबली पांडे
8. मध्यकालीन भारतीय इतिहास – बी.के. पंजाबी
9. भारत का सामाजिक, आर्थिक, सांस्कृतिक इतिहास (भाग-2) – पुरी, दास, चोपड़ा



एम.ए.अंतिम इतिहास, वार्षिक पद्धति 2018-19  
(खंड-स) आधुनिक भारत  
प्रथम प्रश्न पत्र  
आधुनिक भारत (1757 ई. से 1857 ई.)  
(पेपर कोड-0832)

इकाई-1

1. आधुनिक भारतीय इतिहास के स्रोत
2. आधुनिक भारतीय इतिहास लेखन की विभिन्न विचार धाराएँ
3. पूर्व उपनिवेशवादी भारत की राजनीतिक एवं आर्थिक व्यवस्था
4. पूर्व उपनिवेशवादी भारत की सामाजिक एवं सांस्कृतिक व्यवस्था

इकाई-2

5. भारत में यूरोपियों का आगमन
6. यूरोपिय वाणिज्यवाद की विचार धाराएं एवं कार्यक्रम - ब्रिटिश ईस्ट इंडिया कंपनी के संदर्भ
7. कंपनी के अधीन ब्रिटिश साम्राज्य का विस्तार - नीतियां
8. कंपनी के अधीन ब्रिटिश साम्राज्य का विस्तार - युद्ध व कूटनीति

इकाई-3

9. प्रशासनिक विचार धाराएं - प्राच्यवादी, आंग्लवादी, उपयोगितावादी
10. कंपनी के अधीन प्रशासकीय व्यवस्था तथा संवैधानिक विकास
11. प्रशासन के अंतर्गत लोकसेवा, न्याय व्यवस्था एवं पुलिस
12. शैक्षिक विकास (कम्पनी शासन के अंतर्गत)

इकाई-4

13. सामाजिक पुर्नजागरण व परिस्थितियां
14. समन्वयवादी समाज सुधार आंदोलन बंगाल एवं महाराष्ट्र के संदर्भ में
15. प्रतिक्रियावाद - बहावी आंदोलन
16. उपनिवेशवाद का प्रतिरोध - जनजातीय एवं कृषक आंदोलन कृषि एवं भूराजस्व व्यवस्था

इकाई-5

17. 1857 के पूर्व भारत की ग्रामीण अर्थ व्यवस्था में परिवर्तन
18. नगरी अर्थव्यवस्था - हस्तशिल्प उद्योगों की स्थिति
19. 1857 का विद्रोह - विचार धाराएं, कार्यक्रम, नेतृत्व एवं ब्रिटिश प्रतिक्रिया





## 20. आंतरिक एवं विदेशी व्यापार में परिवर्तन

## संदर्भ ग्रंथ –

1. ब्रिटीश भारत का आर्थिक इतिहास – रमेश चंद्रदत्त
2. आधुनिक भारत– एल.पी. शर्मा
3. भारत में अंगेजीराज– पं. सुन्दरलाल
4. भारतीय स्वतंत्रता का इतिहास (1857-1947) – विपिन चंद्र
5. भारतीय राष्ट्रवाद की सामाजिकी पृष्ठभूमि – ए.आर. देसाई
6. इंडिया टुडे – रजनी पाम दत्त
7. इंडियन सोसायटी इन दी एट्टीन सेंचुरी – बी.पी. रघुवंशी
8. आधुनिक भारत का इतिहास एवं नवीन मूल्यांकन (1707–1968)– बी.एल. ग्रोवर एवं यशपाल
9. मेकिंग ऑफ माडर्न इंडिया –एस.आर. शर्मा
10. आधुनिक भारत – सुमित सरकार
11. भारत का राष्ट्रीय आंदोलन एवं सवैधानिक विकास – एस.एल. नागोरी
12. आधुनिक भारत का इतिहास – एम.एस. जैन
13. आधुनिक भारत, 3 खंड – प्रतापसिंह
14. आधुनिक भारत का सामाजिक, आर्थिक इतिहास – प्रतापसिंह
15. सोसल एंड इकानॉमिक हिस्ट्री ऑफ माडर्न इंडिया – एस.पी. नायर



एम.ए.अंतिम इतिहास, वार्षिक पद्धति 2018-19  
(खंड-स) द्वितीय प्रश्न पत्र  
आधुनिक भारत (1858-1964 ई.)  
(पेपर कोड-0383)

इकाई-1

1. प्रशासनिक परिवर्तन - संवैधानिक सुधारों के संदर्भ में
2. प्रशासनिक ढांचा - लोकसेवा, न्याय व्यवस्था तथा पुलिस सेवा के संदर्भ में
3. देशी रियासतों के साथ संबंध - नीतिगत विस्तार
4. पड़ोसी राज्यों से संबंध - नीतियां एवं कार्यक्रम - अफगानिस्तान, नेपाल, फारस, तथा बर्मा के संदर्भ

इकाई-2

5. आर्य समाज व थियोसोफिकल सोसायटी, प्रार्थना समाज, रामकृष्ण मिशन
6. भारतीय मुसलमानों का ब्रिटिश राज के साथ सहयोग अलीगढ़ आंदोलन
7. ब्रिटिश शासन काल में नारी उत्थान के प्रयास
8. आधुनिक शिक्षा का विकास

इकाई-3

9. यातायात एवं संचार के साधनों में विकास
10. आधुनिक उद्योगों का विकास
11. भारतीय कृषि का वाणिज्यीकरण
12. भारत से धन निर्गमन

इकाई-4

13. भारतीय राष्ट्रवाद का उदय - अवधारणाएं एवं गतिविधियां
14. 1919 तक संगठित राष्ट्रवाद की प्रवृत्तियां
15. कृषक, श्रमिक एवं क्रांतिकारी आंदोलन
16. गांधीवादी आंदोलन - विचारधारा, स्वरूप, कार्यक्रम

इकाई-5

17. भारतीय रियासतों का विलयीकरण
18. नियोजित अर्थ व्यवस्था - पंचवर्षीय योजनाएं
19. भूमिसुधार, स्वास्थ्य एवं तकनीकी विकास
20. भारत की विदेश नीति - गुट निरपेक्ष

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### संदर्भ ग्रंथ—

1. ब्रिटिश भारत का आर्थिक इतिहास — रमेश चंद्रदत्त
2. आधुनिक भारत का इतिहास (एक नवीन मूल्यांकन) (1707 से 1964 तक) — बी.एल. गोवर तथा यशपाल
3. आधुनिक भारत — एल.पी. शर्मा
4. मेकिंग ऑफ माडर्न इंडिया — एस.आर. शर्मा
5. द सेंट्रल एडमिनिस्ट्रेशन इस्ट इंडिया कंपनी — बी.बी. मिश्रा
6. भारत में अंग्रेजीराज — पं. सुन्दरलाल
7. इकानोमिक हिस्ट्री ऑफ इंडिया — आर.सी. दत्त
8. भारतीय राष्ट्रवाद की सामाजिक पृष्ठभूमि — ए.आर. देसाई
9. भारतीय स्वतंत्रता संग्राम का इतिहास (1857-1947) — विपिन चंद्र
10. आजादी के बाद का भारत (1947-2000) — विपिन चंद्र
11. सोसल कल्चरल एंड इकानोमिक हिस्ट्री ऑफ इंडिया— एच. राय चौधरी
12. कैम्ब्रिज हिस्ट्री ऑफ इंडिया
13. कैम्ब्रिज इकानोमिकल हिस्ट्री ऑफ इंडिया
14. भारत का सामाजिक, सांस्कृतिक एवं आर्थिक इतिहास (खंड-3) —पुरी, दास, चोपड़ा
15. आधुनिक भारत — सुमित सरकार
16. आधुनिक भारत का इतिहास — एम.एस. जैन
17. आधुनिक भारत का सामाजिक, आर्थिक इतिहास — प्रतापसिंह
18. आधुनिक भारत, 3 खंड — प्रतापसिंह
19. सोसल एंड इकानॉमिक हिस्ट्री ऑफ माडर्न इंडिया — एस.पी. नायडू
20. फ्रीडम स्ट्रगल — कमलेश्वर राय



एम.ए.अंतिम इतिहास, वार्षिक पद्धति 2018-19  
 (खंड-स) वैकल्पिक -1  
 भारतीय राष्ट्रीय आंदोलन का इतिहास (1885-1947 ई.)  
 (पेपर कोड-0384)

इकाई -1

1. भारतीय राष्ट्रवाद की वैचारिक पृष्ठभूमि
2. कांग्रेस के पूर्व राजनीतिक संगठन
3. भारतीय राष्ट्रीय कांग्रेस की स्थापना, स्थापना से संबंधित विभिन्न विचारधाराएं
4. कांग्रेस में उदारवाद - उग्रवाद संघर्ष

इकाई -2

5. स्वदेशी आंदोलन
6. क्रांतिकारी आंदोलन - प्रथम चरण - बंगाल, महाराष्ट्र, पंजाब
7. होमरूल आंदोलन
8. क्रांतिकारी आंदोलन - द्वितीय चरण - हिन्दुस्तान रिपब्लिक आर्मी, संयुक्त प्रांत एवं बंगाल

इकाई -3

9. गांधीवादी आंदोलन - असहायोग आंदोलन
10. गांधीवादी आंदोलन - सविनय अवज्ञा आंदोलन
11. गांधीवादी आंदोलन - व्यक्तिगत सत्याग्रह
12. गांधीवादी आंदोलन - भारत छोड़ो आंदोलन

इकाई -4

13. भारतीय राजनीति में वामपंथी विचारधारा
14. भारतीय राजनीति में साम्प्रदायवाद
15. कृषक, श्रमिक एवं जनजातीय आंदोलन
16. रियासतों में स्वाधीनता आंदोलन

इकाई -5

17. प्रांतीय स्वायत्तता का क्रियान्वयन
18. राजनीतिक गतिरोध - 1940-45
19. सुभाष चंद्र बोस एवं आजाद हिन्द फौज
20. अंतरिम सरकार से स्वाधीनता आंदोलन तक

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संदर्भ ग्रंथ—

1. ब्रिटिश भारत का आर्थिक इतिहास— आर.सी. दत्त
2. आधुनिक भारत का नवीन मूल्यांकन — बी.एल. गोवर
3. आधुनिक भारत — एल.पी. शर्मा
4. इंडियन नेशनल मूवमेन्ट एंड द लिबरन — आभा सक्सेना
5. आधुनिक भारत — विपिन चंद्रा
6. आजादी के बाद का राज — पं. सुन्दरलाल
8. भारतीय स्वतंत्रता संग्राम का इतिहास — विपिन चंद्र
9. फ्रीडम स्ट्रगल — कमलेश्वर राय
10. आधुनिक भारत — सुमित सरकार
11. भारतीय स्वाधीनता आंदोलन का इतिहास — ताराचंद
12. भारतीय राष्ट्रीयता का विकास — बी. एन. लूनिया



एम.ए.अंतिम इतिहास, वार्षिक पद्धति 2018-19  
 (खंड-स) वैकल्पिक-2  
 भारत का सांस्कृतिक इतिहास-प्रारंभ से 1950 ई.तक  
 (पेपर कोड-0385)

इकाई-1

1. हड़प्पा कालीन संस्कृति
2. वैदिक कालीन संस्कृति
3. मौर्यकालीन संस्कृति
4. भारतीय संस्कृति में अशोक का योगदान

इकाई-2

5. भारतीय संस्कृति पर यूनानी, शक, कुषाण प्रभाव
6. गुप्तकालीन संस्कृति
7. राजपूत कालीन संस्कृति
8. पूर्व मध्यकालीन संस्कृति एवं ब्राम्हणवाद

इकाई-3

9. इण्डो-इस्लामिक संस्कृति
10. भक्ति- आंदोलन
11. सूफीवाद
12. भारतीय संस्कृति में अकबर का योगदान

इकाई-4

13. यूरोपियों का भारत आगमन एवं भारतीय संस्कृति पर उनका प्रभाव
14. भारतीय संस्कृति एवं मिशनरियों का योगदान
15. भारतीय संस्कृति पर पश्चात्य प्रभाव
16. भारतीय संस्कृति के विकास में प्राच्यवाद की भूमिका

इकाई-5

17. राजाराम मोहनराय एवं समन्वयवादी आंदोलन
18. आर्य समाज एवं थियोसोफिकल सोसायटी
19. मुस्लिम समाज सुधार एवं भारतीय संस्कृति
20. भारतीय संस्कृति एवं गांधीजी

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## संदर्भ ग्रंथ—

1. सिंधु सभ्यता — जयनारायण पांडे
2. प्राचीन भारत का इतिहास तथा संस्कृति — डॉ.के.सी. श्रीवास्तव
3. भारत का प्राचिन इतिहास — डॉ. कमलेश्वर प्रसाद
4. मध्यकालीन भारत (खंड-1 व खंड-2) —हरिशचंद्र वर्मा
5. सल्तनत कालीन भारत — डॉ. ए.एल. श्रीवास्तव
6. आधुनिक भारत का इतिहास — एक नवीन मूल्यांकन — ग्रोवर एवं यशपाल
7. आधुनिक भारत — विपिन चंद्र
8. संस्कृति के चार अध्याय — रामधारी सिंह दिनकर
9. आधुनिक भारत — एल.पी. शर्मा
10. अद्भुत भारत — ए.एल. बाशम
11. भारत का सामाजिक, सांस्कृतिक एवं आर्थिक इतिहास — पुरी, दास, चोपड़ा
12. मध्यकालीन संस्कृति — आशीर्वादी लाल श्रीवास्तव
13. दिल्ली सल्तनत — आर.पी. त्रिपाठी
14. भारतीय संस्कृति का विकास — बी.एन. लूनिया
15. भारतीय सभ्यता एवं संस्कृति — बी.एन. लूनिया



एम.ए.अंतिम इतिहास ,वार्षिक पद्धति 2018-19  
~~(खंड-3)~~ वैकल्पिक-3  
 पर्यटन सिद्धांत एवं व्यवहार, इतिहास के संदर्भ में

इकाई-1

1. पर्यटन का अर्थ, परिभाषा, उद्देश्य एवं महत्व
2. पर्यटन सिद्धांत एवं व्यवहार
3. भारतीय पर्यटन संगठन केन्द्रीय
4. प्रांतीय पर्यटन संगठन एवं विभाग

इकाई-2

1. ट्रेवल एजेंसी-गठन, कार्य
2. पर्यटन एवं यातायात
3. पर्यटन एवं आवास तथा होटल उद्योग
4. अंतरराष्ट्रीय पर्यटन, पासपोर्ट, वीसा, सुविधाएं एवं समस्याएं

इकाई-3

1. पर्यटन एवं कला, संस्कृति, मेले, त्योहार एवं हस्तकला, उद्योग
2. पर्यटन का इतिहास से संबंध
3. पर्यटन उद्योग, विपणन एवं पर्यटन
4. पर्यटन विकास के कारक

इकाई-4

1. पर्यटन में राष्ट्रीय उद्यानों का महत्व एवं भारत के प्रमुख राष्ट्रीय उद्यानो
2. छत्तीसगढ़ के प्रमुख राष्ट्रीय उद्यान एवं अभ्यारण
3. उत्तर, एवं दक्षिण भारत में प्रमुख ऐतिहासिक, प्राकृतिक एवं धार्मिक पर्यटन स्थल
4. पूर्व एवं पश्चिम भारत के प्रमुख ऐतिहासिक प्राकृतिक एवं धार्मिक पर्यटन स्थल

इकाई -5

1. छत्तीसगढ़ के प्रमुख ऐतिहासिक पर्यटन स्थल
2. छत्तीसगढ़ के प्रमुख धार्मिक पर्यटन स्थल
3. छत्तीसगढ़ के प्रमुख प्राकृतिक पर्यटन स्थल
4. छत्तीसगढ़ में पर्यटन की सुविधाएं एवं समस्याएँ।



संदर्भ ग्रंथ –

1. जगमोहन नेगी – राष्ट्रीय संस्कृति, संपदा सांस्कृतिक एवं पर्यटन
2. रामआचर्य – टूरिज्म एवं क्लचर हेरीटेज आफ इंडिया
3. ताज रावत – पर्यटन का प्रभाव एवं प्रबंधक
4. शिवाकांत वाजपेयी – सिरपुर पुरातत्व एवं पर्यटन
5. पर्यटन विभाग – भारत शासन एवं छत्तीसगढ़ शासन द्वारा प्रकाशित सामग्री



पाठ्यक्रम  
एम.फिल.इतिहास  
सत्र-2018-19

| प्रश्न पत्र<br>Paper         | प्रश्न पत्र का नाम<br>Name of Paper                                                                                                            | अंकों का विभाजन<br>Allotment of Marks |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| प्रथम<br>I                   | शोध प्रविधि<br>Research Methodology                                                                                                            | 100                                   |
| द्वितीय<br>II                | इतिहास दर्शन तथा लेखन<br>Philosophy of History and Historiography                                                                              | 100                                   |
| तृतीय<br>III                 | भारतीय इतिहास के स्रोत<br>Sources of Indian History                                                                                            | 100                                   |
| <b>योग (Total)</b>           |                                                                                                                                                | <b>300</b>                            |
| चतुर्थ<br>IV                 | सेमीनार<br>Seminar (Best out of two)                                                                                                           | 50                                    |
| पंचम<br>V                    | लघु शोध प्रबंध लेखन<br>Dissertation<br>(i) (Seminar based on dissertation) - (50)<br>(ii) Dissertation (Script) - (200)<br>including Viva-Voce | 250                                   |
| <b>योग (Total)</b>           |                                                                                                                                                | <b>300</b>                            |
| <b>सकल योग (Grand Total)</b> |                                                                                                                                                | <b>600</b>                            |

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पाठ्यक्रम  
एम.फिल इतिहास  
प्रथम प्रश्न पत्र— शोध प्रविधि  
सत्र 2018—19

इकाई – 1

1. शोध का अर्थ, उद्देश्य एवं महत्व
2. शोध प्रारूप (Synopsis) निर्माण के चरण, शोध विषय का चयन, संबंधित साहित्य का पुनरावलोकन
3. परिकल्पना निर्माण – परिकल्पना का अर्थ उद्देश्य एवं प्रकार
4. शोध विधि का चयन – अध्यायीकरण, संदर्भ ग्रंथ सूची

इकाई – 2

5. अवलोकन – अर्थ, महत्व, प्रकार
6. ऐतिहासिक स्थल अवलोकन – शिलालेख, स्मारक
7. ऐतिहासिक दस्तावेज अवलोकन – पांडुलिपि, प्रकाशित सामग्री
8. ऐतिहासिक दस्तावेज अवलोकन – शासकीय, अशासकीय सामग्री

इकाई – 3

9. समाजशास्त्रीय अवलोकन – अर्थ, उद्देश्य एवं महत्व उपकरण
10. समाजशास्त्रीय अवलोकन – समूह अवलोकन, बाह्य एवं आंतरिक अवलोकन
11. निदर्शन सैम्पल – प्रकार एवं तकनीक
12. प्रश्नावली – प्रश्नों का निर्माण, प्रकार एवं सत्यापन

इकाई – 4

13. साक्षात्कार – उद्देश्य, उपकरण, महत्व
14. साक्षात्कार – वर्गीकरण, तकनीक, समस्याएं
15. सांख्यिकी विश्लेषण का महत्व एवं सीमाएं और कम्प्युटर का प्रयोग
16. स्रोतों का प्रतिपरीक्षण तथा व्याख्या

इकाई – 5

17. निष्कर्ष की प्राप्ति एवं परिकल्पना परीक्षण
18. शोध प्रबंध लेखन – प्रविधि, समस्याएं
19. उद्धरण, पाद टिप्पणियां, संदर्भ ग्रंथ सूची
20. शोध पत्र लेखन, प्रतिवेदन लेखन, पुस्तक समीक्षा लेखन

संदर्भ ग्रंथ :

1. पारसनाथ राय – अनुसंधान परिचय
2. एम.आर. बाजपेयी – सामाजिक अनुसंधान तथा सर्वेक्षण
3. सुनील गोयल एवं संगीता – सामाजिक अनुसंधान के मूल तत्व
4. रविन्द्रनाथ मुखर्जी – सामाजिक शोध स सांख्यिकी
5. धर्मवीर महाजन एवं कमलेश महाजन – सामाजिक अनुसंधान की पद्धतियां
6. कौलेश्वर राय – इतिहास दर्शन
7. के.एल. खुराना एवं आर.के बंसल – इतिहास लेखन धारणाएं एवं पद्धति
8. सुरेन्द्र शर्मा – रिसर्च मेथोडोलॉजी
9. डॉ. आभापाल एवं डिश्वर नाथ खुटे – सामाजिक विज्ञान की शोध प्रविधियां
10. Satish K. Bajaj - Research Methodology in History

\* \* \*



पाठ्यक्रम  
एम.फिल इतिहास  
द्वितीय प्रश्न पत्र – इतिहास दर्शन तथा लेखन  
सत्र 2018–19

इकाई – 1

1. इतिहास का अर्थ तथा स्वरूप
2. इतिहास का उद्देश्य तथा महत्व
3. इतिहास के उपकरण
4. इतिहास और तथ्य

इकाई – 2

5. मिश्र की सभ्यता – समाज एवं संस्कृति
6. यूनानी सभ्यता – समाज एवं संस्कृति
7. रोम की सभ्यता – समाज एवं संस्कृति
8. चीन की सभ्यता – समाज एवं संस्कृति

इकाई – 3

9. प्राचीन यूनानी एवं रोमन इतिहास लेखन
10. मध्यकालीन यूरोप में इतिहास लेखन – ईसाईयत का प्रभाव
11. पुनर्जागरण कालीन यूरोप में इतिहास लेखन मानववाद
12. प्रबुद्धतावादी, रोमान्तकवादी इतिहास लेखन

इकाई – 4

13. आधुनिक काल में यूरोप में इतिहास लेखन इतिहासवाद
14. एनालेस विचारधारा एवं लेखन
15. उत्तर आधुनिकतावादी इतिहास लेखन
16. उत्तर आधुनिकतावादी की आलोचना

इकाई – 5

17. आधुनिक भारत में इतिहास लेखन – जनवादी इतिहास लेखन
18. आधुनिक भारत में इतिहास लेखन – दक्षिण पंथी इतिहास लेखन
19. राष्ट्रवाद और राष्ट्रीय आंदोलन पर इतिहास लेखन
20. सम्प्रदायवाद पर इतिहास लेखन

*muel*

संदर्भ ग्रंथ :

1. एस.एल. नागोरी – विश्व की प्राचीन सभ्यताएं
2. ई. श्रीधरन – इतिहास लेख एक पाठ्य पुस्तक 500 ई.पू. से 2000 तक
3. E. Sreedharan - A Text Book of Historiography
4. E.H. Carr - What is History
5. Satish K. Bajaj - Research Trends In Historiography
6. प्रो. राधेशरण – इतिहास और इतिहास लेखन
7. अरविंद मोहन – इतिहास कथा
8. कौलेश्वर राय – इतिहास दर्शन
9. ब्रजेश कुमार श्रीवास्तव – इतिहास लेखन अवधारणा विधाएं एवं साधन
10. झारखण्डे चौबे – इतिहास दर्शन
11. बुद्ध प्रकाश – इतिहास चक्र
12. परमानंद सिंह – इतिहास दर्शन
13. एस.के. माथुर एवं डी.सी. त्रिपाठी – इतिहास लेखन की अवधारणा एवं आधुनिक विचारधाराएं
14. मानिक लाल गुप्त – इतिहास लेखन, धारणाएं एवं पद्धतियां

\* \* \*

*me*

पाठ्यक्रम  
एम.फिल इतिहास  
तृतीय प्रश्न पत्र— भारतीय इतिहास के स्रोत  
सत्र 2018—19

**इकाई – 1 प्राचीन भारतीय इतिहास के स्रोत**

1. पुरातात्विक स्रोत – अभिलेख, सिक्के
2. पुरातात्विक स्रोत – स्मारक, मृदभांड
3. साहित्यिक स्रोत – धर्म साहित्य – वेद, पुराण, ब्राह्मण ग्रंथ, बौद्ध एवं जैन साहित्य
4. साहित्यिक स्रोत – यात्रा वृत्तांत, ऐतिहासिक स्रोत कौटिल्य, कल्हण

**इकाई – 2 मध्यकालीन भारतीय इतिहास के स्रोत एवं विशेषताएं**

5. दिल्ली सल्तनत दरबारी इतिहासकार – मिन्हाज उस सिराज, जियाउद्दीन बरनी
6. मुगल काल दरबारी इतिहासकार एवं विशेषताएं – अबुल फजल, अब्दुल हमीद लाहौरी
7. मध्यकाल के अन्य इतिहासकार एवं विशेषताएं – इब्नबतूता, अमीर खुसरो
8. मध्यकालीन शासक इतिहासकार – बाबर, जहांगीर

**इकाई – 3 आधुनिक भारत के इतिहास के स्रोत**

9. शासकीय दस्तावेज अभिलेखागारीय सामग्री – राष्ट्रीय आंदोलन संबंधी प्रपत्र एआईसीसी पेपर्स
10. अशासकीय सामग्री – पत्र, डायरियां
11. समाचार पत्र
12. आत्मकथा एवं जीवनियां, महात्मा गांधी की आत्मकथा

**इकाई – 4 छत्तीसगढ़ के इतिहास जानने के स्रोत**

13. पुरातात्विक स्रोत – अभिलेख सिक्के, स्मारक
14. लिखित ऐतिहासिक स्रोत – शासकीय दस्तावेज
15. लिखित ऐतिहासिक स्रोत – पांडुलिपि एवं अशासकीय स्रोत
16. लोक साहित्य एवं लोककला, लोकनृत्य, लोकगीत, लोककथा

**इकाई – 5 अभिलेखागार**

17. अभिलेखागार अर्थ एवं परिभाषा
18. भारत में अभिलेखागार का उद्भव एवं विकास
19. अभिलेखागार की कार्यशैली
20. अभिलेखागार का महत्व



संदर्भ ग्रंथ :

1. निहारिका – प्राचीन भारत पुरातत्व अभिलेख एवं मुद्राएं
2. रणजीत सिंह सैनी – अभिलेख मंजूषा
3. संतोष कुमार वाजपेयी – अभिलेखा शास्त्र एवं मुद्राशास्त्र के मूल तत्व
4. श्याम शर्मा – प्राचीन भारत, वास्तुकला एवं मूर्तिकला
5. राधाकुमुद मुकर्जी – भारत की संस्कृति एवं कला
6. रतन लाल मिश्र – समारकों का इतिहास एवं स्थापत्य कला
7. ओम प्रकाश पांडेय – वैदिक साहित्य एवं संस्कृति का स्वरूप
8. डॉ. राधेशरण – प्राचीन भारत का राजनैतिक सांस्कृतिक इतिहास
9. हबीब एवं निजामी – दिल्ली सल्तनत
10. हेरम्ब चतुर्वेदी – मध्यकालीन इतिहासकार
11. कल्हण – राजतरंगिणी
12. कौटिल्य – अर्थशास्त्र
13. कृष्णदेव उपाध्याय – लोक साहित्य की भूमिका
14. डॉ. शकुन्तला वर्मा – छत्तीसगढ़ लोक जीवन और लोक साहित्य का अध्ययन
15. वर्मा भगवान सिंह – छत्तीसगढ़ का इतिहास प्रारंभ से 1947
16. विपिन चंद्र – आधुनिक भारत
17. यशपाल, ग्रोवर – आधुनिक भारत का इतिहास

\* \* \*





**SCHOOL OF STUDIES IN HISTORY**  
**Pt. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR (C.G.)**  
**COURSE WORK FOR Ph. D. IN HISTORY**

Effective from 2011

Session - 2017-18

| S.N.               | PAPERS                                                                                                                                            | MARKS      |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1                  | Methodological aspect of Research in History                                                                                                      | 100        |
| 2                  | Practical<br>a. Review of related (Maks - 20)<br>b. Seminar : (Marks - 20)<br>c. Project Report/Dissertation<br>(External - 40) & (Internal - 20) | 100        |
| <b>TOTAL MARKS</b> |                                                                                                                                                   | <b>200</b> |

## **Paper - I**

### **Methodological Aspects of Research in History**

**M.M. - 100**

#### **UNIT - I**

1. Research - Meaning, aims and importance
2. Stages of synopsis preparation-selection of topic, Review of related Literature.
3. Hypothesis formation-meaning, aims, kind.
4. Selection of Research methodology, chapterization, Bibliography.

#### **UNIT - II**

5. Observation-meaning, importance, kind
6. Historical field observation-inscriptions, monuments,
7. Historical Documents Observation-Primary source-Manuscripts, Published matters (Government and Non Government), Letters.
8. Historical documents observation-Secondary source books, Research papers, News papers

#### **UNIT - III**

9. Sociological observation-meaning, aims, importance.
10. Sociological observation-equipments, process, kinds.
11. Sample-kinds, technique.
12. Questionnaire-preparation of questions, kinds, verification

#### **UNIT - IV**

13. Interview-meaning, aims, importance, equipments.
14. Interview-classification, technique, problems
15. Statistical tools and analysis.
16. Computer application-Data entry and commands for .....

#### **UNIT - V**

17. Cross examination of sources and Interpretation.
18. Stoges of thesis writing- Test of Hypothesis, corelasion.
19. Quotations, Footnotes, References, Bibliography.
20. Writing of Research Paper, Project Report and Book Review.

**Part I : Review of Related Literature**

**(M-20)**

The candidate shall review minimum 20 research articles of a broad research area from referred journals of the discipline. After reviewing the research articles the candidate shall submit a summary chronologically developing the arguments to the Department within two months from the beginning of the Course. On the basis of the review of literature the candidate shall prepare a synopsis including.

- i. Research
- ii. Review of Literature
- iii. Gaps in earlier Studies
- iv. Statement of Problem.
- v. Objectives
- vi. Hypotheses
- vii. Methodology
- viii. Plan of the Study

**Part - II - Seminar**

**(Marks - 20)**

The candidate shall present a seminar on the synopsis. On the basis of the suggestions made in the seminar, the candidate shall prepare a project report/dissertation. Final examination will be conducted with the help of an external examiner in the presence of the internal examiner.

PT. RAVISHANKAR SHUKLA UNIVERSITY RAIPUR,  
CHHATTISGARH

FACULTY OF LAW(ORDINANCE No. 179)

ORDINANCE, SCHEME OF EXAM AND SYLLABUS

OF

B.A.LL.B.

(FIVE YEAR INTEGRATED DEGREE COURSE)

SEMESTER SYSTEM EXAMINATION

2018-19

PUBLISHED  
BY

SCHOOL OF P.G. STUDIES AND RESEARCH IN LAW

FOR

REGISTRAR

PT. RAVISHANKAR SHUKLA UNIVERSITY RAIPUR,  
CHHATTISGARH

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Balmiki  
11/11/18

HEAD  
School of Studies in Law  
Pt. Ravishankar Shukla University  
RAIPUR (C.G.)-492010

**Pt. Ravishankar Shukla University Raipur, Chhattisgarh**

Revised ordinance No.179

**B.A.LL.B. FIVE YEARS INTEGRATED DEGREE COURSE  
(Semester System)**

1. The whole period of this integrated B.A.LL.B course divided into five academic years/ classes known as B.A.LL.B Semester first, second, third, fourth, fifth, sixth, seventh, eighth, ninth and tenth semesters respectively. Every year /class is divided into Two Semesters WINTER and SUMMER Semesters. The examination of winter semester of all the classes will be called as WINTER TERM EXAMINATION and the other one would be known as SUMMER TERM EXAMINATION. In other words the course is extended into TEN SEMESTERS. The winter semesters are known as ODD semesters ( I, III, V, VII , IX ) while the summer semesters are known as EVEN semesters ( II, IV, VI, VIII , X ).

2. The details syllabus/ course of studies for each semester/ academic year and marking scheme for examination, etc. for this course shall be framed and approved by the Board of Studies and Law faculty duly constituted in accordance with the provision of the University Statute and Act. The syllabus forming bodies can amend/ modify the syllabus if needed in the light of BCI norms, time to time.

3. The semester academic schedule shall be framed by the University authorities according to the guidelines of BCI, and may be changed if needed.

The general schedule \* will be as follows for this course—

| S.No. | ACTIVITY                                     | ODD SEMESTERS<br>I, III, V, VII, IX | EVEN<br>SEMESTER<br>II, IV, VI, VIII, X |
|-------|----------------------------------------------|-------------------------------------|-----------------------------------------|
|       |                                              | DATE                                | DATE                                    |
| 1     | Admission Process                            | June 16 – July 15                   | -----                                   |
| 2     | Commencement of the classes                  | July 16                             | January 1                               |
| 3     | Meeting of Examination Committed 1           | August 1-4                          | January 15-30                           |
| 4     | Name of the Practical Examination (External) | September 1-10                      | February 20-28                          |

|   |                                          |                                      |                                          |
|---|------------------------------------------|--------------------------------------|------------------------------------------|
|   | should be informed to Head of S.O.S      |                                      |                                          |
| 5 | Completion of Theory course              | November-1                           | April-1                                  |
| 6 | Practical Examination                    | November 1-10                        | April 1-10                               |
| 7 | Preparation leave                        | November 11-15                       | April 11-15                              |
| 8 | Theory Examinations                      | November 16-30                       | April 16-30                              |
| 9 | Declaration of Result/<br>Semester Break | (Winter Term Exam.)<br>December 1-31 | (Summer Term Exam.)<br>May 1-<br>June 15 |

\* This is a general schedule; the activities may be fluctuated in avoidable circumstances.

1. Respective sections (Examination and Confidential) the university will act accordingly.

2. The Practical examination date will be confident by HOD/ Principal as the case may be.

4. An applicant who has passed & successfully completed Senior secondary school certificate course in 10+2 system or equivalent (such as 11+1, 'A' level in senior school leaving certificate) course recognized by the university or passed Higher Secondary School Examination of Chhattisgarh Board of Higher Secondary Examination, Raipur with at least 45% of the total marks in case of General category and 40% of the total marks in the case of SC and ST in any stream and also fulfilled the other institutional and State Government criteria shall be eligible for a admission in B.A.LL.B First Semester. The procedure for this admission shall be announced by the University administration every year.

5. Subject to the condition stipulated by a University on this behalf and the high degree of professional commitment required the maximum age for seeking admission in this course is limited to twenty years in case of General category of applicant and twenty two years in case of applicants for SC/ST and Other Backwards communities on the 1<sup>st</sup> day of July every year.

6. If any applicant who fulfill the requirements of clause 4 and 5 and other processes relating to admission and he/she has got admitted in First semester and has prosecuted regular course of prescribed study for that semester session in the University School of Law or in an affiliated College to the University shall be eligible to appear at the B.A.LL.B First semester WINTER TERM EXAMINATION.

3

  
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Pt. Ravishanker Shukla University  
B.A.P.L.B (C.G.) 402010

7. (i) There will be a full examination at the end of each semester consisting of theory paper and practical examination.
- (ii) A candidate who fails to secure minimum pass mark in any subject may improve the same at the next semester examination (ATKT)
- (iii) There will be no supplementary examination
- (iv) Standard of passing:
- Minimum 36% marks in individual paper.
  - There shall be 48% marks in aggregate in each semester examination.
  - A candidate who has secured minimum passing marks in all the papers but could not obtain 48% marks, such candidate shall be given option to select two papers of the concern semester to makeup to the short fall of the 48% aggregate of each semester.
- (v) A Candidate who has been admitted B.A.L.L.B. 1<sup>st</sup> Semester will be promoted in higher semester in accordance with following sub rules.
- A candidate shall not be admitted in the fifth or higher Semester Classes unless he/she has fully passed/cleared in first and second semester examination(passed in individual paper and 48% aggregate), likewise candidate shall not be admitted to seventh or higher semester clear unless he/she fully passed/cleared the first four semester examination(passed in individual paper and 48% aggregate and similarly candidate shall not be admitted in the 9<sup>th</sup> or higher semester classes unless he/she fully passed/cleared the first six semester examination(passed in individual paper and 48% aggregate).
  - For the promotion to the higher semester the sequence shall be adhered to.
  - No Candidate will be awarded degree of B.A.L.L.B. unless he/she passed all the 10<sup>th</sup> semester examination. If any previous semester, paper remains as backlog to be cleared by him/her the result will be withheld till he/she passed the backlog.

A successful candidate shall be awarded division on the basis of marks obtained by him/her in all ten semester examination taken together. Those who secure 60% or more shall be placed in 1<sup>st</sup> division. All other successful candidates shall be placed in 2<sup>nd</sup> division.

8. (a) No Candidate shall be permitted to appear for any of the B.A.LL.B. Semester examination unless he has attended at least 75% of the total number of lectures, Practical works and Seminars held during the Semester Session. The Vice Chancellor may condone 15% of attendance on the recommendation of Head of S.O.S /Principal in genuine cases.

(b) Every student of the College/University Teaching Department Seeking admission to the semester examination shall submit through the principal or Head of the Department as the case may be, application on prescribed form together with necessary fees. The student shall be permitted to appear in the examination if he fulfills other condition of ordinance/statutes of University relating to the examination.

9. In order to declare successful at any of the B.A.LL.B. Semester Examination every Candidate will have to obtain at least 36% marks in individual papers and at least 48% marks in aggregate.

A successful candidate shall be assigned division on the basis of the marks obtained by him/her in all the ten semester examinations taken together. Those who secure 60% marks or more shall be placed in the FIRST DIVISION. All other successful Candidate shall be placed in the SECOND DIVISION.


10. The provision of revaluation will not be available; however a student may apply for re-totaling.

11. The conditions / stipulations of above ordinance will be subject to rules and regulations made or modified by the Bar Council of India in respect of Rules of Legal Education as framed and amended from time to time.

12. The provisions of Ordinances 5 and 6 shall be applicable only to the extent that they are not inconsistent with the provision of this Ordinance.

13. The Executive Council shall publish the results of the examination as soon as possible for it.

14. After passing all the Five Year semester examinations, the candidate shall be eligible for the degree of B.A. LL.B. Five Year Integrated Degree Course, if permitted by the executive council.

  
5  
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School of Studies in Law  
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RAIPUR (C.G.) 492010



**B.A.LL.B. (SEMESTER SYSTEM) - Session (2018-19)**


**FIRST SEMESTER**

| S.No               | Papers                             | Max. Marks |
|--------------------|------------------------------------|------------|
| 1                  | English-I                          | 100        |
| 2                  | Sociology                          | 100        |
| 3                  | History                            | 100        |
| 4                  | Legal History of India (1600-1887) | 100        |
| <b>Total Marks</b> |                                    | <b>400</b> |

**B.A.LL.B. (SEMESTER SYSTEM) - Session (2018-19)**

**SECOND SEMESTER**

| S.No               | Papers                                      | Max. Marks |
|--------------------|---------------------------------------------|------------|
| 1                  | English-II                                  | 100        |
| 2                  | Economics                                   | 100        |
| 3                  | Political Science-I                         | 100        |
| 4                  | Constitutional History of India (1858-1950) | 100        |
| <b>Total Marks</b> |                                             | <b>400</b> |

6  
  
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RAIPUR (C.G.) 492010

**B.A LL.B (SEMESTER SYSTEM) (2018-19)**  
**THIRD SEMESTER**

| S. No              | Papers                                                        | Max. Marks |
|--------------------|---------------------------------------------------------------|------------|
| 1                  | Political Science – II(Major)                                 | 100        |
| 2                  | History – II (Minor)                                          | 100        |
| 3                  | Economics – II (Minor)                                        | 100        |
| 4                  | Contract-I (General Principal of Contract)and Specific Relief | 100        |
| <b>Total Marks</b> |                                                               | <b>400</b> |

**B.A.LL.B. (SEMESTER SYSTEM) - Session (2018-19)**  
**FOURTH SEMESTER**

| S. No              | Papers                                                               | Max Marks  |
|--------------------|----------------------------------------------------------------------|------------|
| 1                  | Political Science – III (Major)                                      | 100        |
| 2                  | Sociology – II (Minor)                                               | 100        |
| 3                  | Political Science – IV (Major)                                       | 100        |
| 4                  | Contract - II (Specific Contract ) Sale of Goods and Partnership Act | 100        |
| <b>Total Marks</b> |                                                                      | <b>400</b> |

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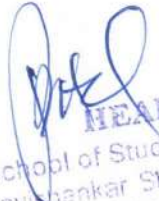
**B.A.LL.B. (SEMESTER SYSTEM) - Session (2018-19)**  
**FIFTH SEMESTER**

| S.No               | Papers                                                                                                        | Max. Marks |
|--------------------|---------------------------------------------------------------------------------------------------------------|------------|
| 1                  | Jurisprudence and Legal Theory                                                                                | 100        |
| 2                  | Law of Torts including Motor Vehicle Act and Consumer Protection Laws                                         | 100        |
| 3                  | Law of Crimes -I (I.P.C.)                                                                                     | 100        |
| 4                  | Law of Crimes -II (Criminal Procedure Code ,1973 Juvenile Justice Act,2015 & Probation of Offenders Act,1958) | 100        |
| <b>Total Marks</b> |                                                                                                               | <b>400</b> |

**B.A.LL.B. (SEMESTER SYSTEM) - Session (2018-19)**  
**SIXTH SEMESTER**

| S.No               | Papers                                                              | Max. Marks |
|--------------------|---------------------------------------------------------------------|------------|
| 1                  | Law of Evidence                                                     | 100        |
| 2                  | Constitutional law -I                                               | 100        |
| 3                  | Constitutional law -II                                              | 100        |
| 4                  | Environmental law including Wild Life Protection and Animal Welfare | 100        |
| <b>Total Marks</b> |                                                                     | <b>400</b> |

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**B.A.LL.B. (SEMESTER SYSTEM) - Session (2018-19)**  
**SEVENTH SEMESTER**

| S.No               | Papers                                                                 | Max. Marks |
|--------------------|------------------------------------------------------------------------|------------|
| 1                  | Family Law-I Hindu law                                                 | 100        |
| 2                  | Family Law-II Muslim law                                               | 100        |
| 3                  | Administrative Law & Right to Information Act                          | 100        |
| 4                  | Law of Equity and Indian Trust Act,1882                                | 100        |
| 5                  | (Practicals) : Professional Ethics and Professional Accounting System. |            |
| <b>Total Marks</b> |                                                                        | <b>500</b> |

**B.A.LL.B. (SEMESTER SYSTEM) - Session (2018-19)**  
**EIGHTH SEMESTER**

| S.No               | Papers                                         | Max. Marks |
|--------------------|------------------------------------------------|------------|
| 1                  | Labour and Industrial Law-I                    | 100        |
| 2                  | Labour and Industrial Law-II                   | 100        |
| 3                  | Human Rights and Public International Law      | 100        |
| 4                  | Insurance Law                                  | 100        |
| 5                  | (Practicals) : Alternative Disputes Resolution | 100        |
| <b>Total Marks</b> |                                                | <b>500</b> |

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**B.A.LL.B. (SEMESTER SYSTEM) - Session (2014-19)**  
**NINTH SEMESTER**

| S.No               | Papers                                           | Max. Marks |
|--------------------|--------------------------------------------------|------------|
| 1                  | C.G. Land Revenue Code and Other local laws      | 100        |
| 2                  | Intellectual Property Law                        | 100        |
| 3                  | Company Law                                      | 100        |
| 4                  | Law of Taxation                                  | 100        |
| 5                  | (Practical): Moot Court exercised and Internship |            |
| <b>Total Marks</b> |                                                  | <b>500</b> |

**B.A.LL.B. (SEMESTER SYSTEM) - Session (2014-19)**  
**TENTH SEMESTER**

| S.No               | Papers                                                   | Max. Marks |
|--------------------|----------------------------------------------------------|------------|
| 1                  | Transfer of Property Act and Easement Act                | 100        |
| 2                  | Civil Procedure Code and Limitation Act                  | 100        |
| 3                  | Interpretation of Statutes and Principles of Legislation | 100        |
| 4                  | Criminology and Penology                                 | 100        |
| 5                  | (Practical): Drafting, Pleading and Conveyancing         | 100        |
| <b>Total Marks</b> |                                                          | <b>500</b> |

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**SYLLABUS FOR B.A.LL.B SEMESTER-I**

**PAPER-I-  
ENGLISH-I-GENERAL ENGLISH**

**UNIT-I GRAMMER AND USAGES :**

- (a) Tense Sequence - Tense & Concord.
- (b) Noun modifier (determiners propositional phrases and clauses).
- (c) Active and Passive.
- (d) Basic language skill - The ability to fill up blanks correct errors, choose correct form out of alternative choice. Join clauses.

**UNIT-II SENTENCES AND ITS BASIC TRANSFORMATION :**

- (a) Basic transformation - Passive, Negatives, questions, conditional
- (b) Reported Speeches Including Part of speeches
- (c) Question tags and short responses.

**UNIT-III VOCABULARY (COMMUNICATIONS SKILLS) :**

- (a) English legal terms relevant the subject/paper
- (b) Use of legal terms and idiomatic expression.
- (c) Use of language as a tool to express communicative functions, such as seeking and imparting information-expressing attitudes - intellectual and emotional , persuasion and discussion.
- (d) Common error in English.

**UNIT-IV COMPREHENSION SKILL :**

- (a) Reading comprehension (Principles and Practice) of unseen passage
- (b) Listening comprehension

**UNIT-V COMPOSITION SKILL :**


- (a) Paragraph writing
- (b) Formal correspondence
- (c) Note taking

(d) Translation from regional language into English and vice-versa.

**RECOMMENDED READING MATERIAL**

1. F.T. WOOD - REMEDIAL ENGLISH GRAMMER FOR FOREIGN STUDENT (MAC-MILLAN)(1975).
2. ISTIAQUE ABIDI - LAW AND LANGUAGE - (UNIVERSITY PUBLISHER-ALIGARH)(1978)
3. COLLINS -LEGAL DICTIONARY (UNIVERSAL BOOK STALL, 3 ANSARI ROAD), NEW DELHI.
4. W.STANNARD ALLEN -LIVING ENGLISH STRUCTURE (OXFORD)
5. M.K. GANDHI - THE LAW AND THE LAWERS (NAVJIVAN PUBLISHERS AHMADABAD)
6. DENNING -DUE PROCESS OF LAW (BUTTER WORTH LONDON)
7. M.C. CHAGLA - ROSES IN DECEMBER (BHARTIYA VIDYA BHAWAN, BOMBAY)
8. VIDHI SAHITYA PRAKASHAN- MINISTRY OF LAW NEW DELHI-HINDI-ENGLISH GLOSSORY
9. SUNITA SHARMA - A TEXT BOOK OF ENGLISH GRAMMER COMPOSITION AND TRANSLATION (VIKAS)
10. GARNER BRYAN - A DICTIONARY OF MODERN LEGAL USAGES (OUPANSARI ROAD DARIYAGANJ, NEW DELHI)
11. SCHEDULED MATERIAL DRAWN FROM RENOUNED JUDGEMENT.
12. BHASHARAN & HORSBURGH - STRANGTHEN YOUR ENGLISH (OUP - 1973)
13. B.K. DAS AND DAVID - A REMEDIAL COURSE IN ENGLISH FOR COLLEGES (BOOK I & II)
14. M.L. TIKKOO & SUBRAMANIAM - USAGES AND COMPOSITION (LONGMAN)
15. PROF. V.S. ELIZABETH - GENERAL ENGLISH
16. R.K. JAIN - PROFESSION IN ENGLISH

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**PAPER - II**  
**SOCIOLOGY**

**UNIT-I**

- (a) Sociology as a science and its concepts- its meaning definition and Origin and importance.
- (b) Basic concepts in Sociology - Society community group associations, value and norms.
- (c) Major concepts social structure and organization.
- (d) Social Institutions Marriage, Family kinship and economic, institution, Power and Political Institutions, Religious Institutions.

**UNIT-II**

- (a) The Human personality - Society and Heredity interrelation, Durkheim's Theory of Suicide.
- (b) Socialization - concept, stages, agencies and Theories, Development of self and personality, Social stratification backward classes, Marx's concept of class struggle.

**UNIT-III**

- (a) Anomic Deviance and Social Structure.
- (b) Social Control - Concepts forms and agencies Formal and informal social order and stability, control.

**UNIT-IV**

- (a) Social Process - Association and disassociate social process, its concepts and classification, Durkheim's Theory of Social Solidarity.
- (b) Social Change, Concepts and Characteristics and Trend, Factors of social changes - Cultural Technological and Economic.
- (c) Cultural Change, Trend in Indian Cultural values & development.

**UNIT-V**

- (a) Law and Society - Social factors and legal system.
- (b) Sociology of Law and Legal profession.



### RECOMMENDED READING MATERIAL :

1. PELER WESSELEY - INTRODUCTION SOCIOLOGY (HERMOND-WORTH PENGUINE BOOK 1971)
2. N.K. BOSE - THE STRUCTURE OF HINDU SOCIETY (ORIENT LONGMAN-1975)
3. ROMESH THAPPER (ED)-TRIBE, CASTE, RELIGION AND INDIA (MACMILLAN) 1977.
4. MACIVER & PASE - SOCIETY.
5. DAVID GMUNDEL MAUM- SOCIETY IN INDIA (BOMBAY POPULAR PRAKASHAN, 1972).
6. ANDRI BETEILLI - THE BACKWARD CLASSES IN NEW SOCIAL ORDER (OUP 1984)
7. ANDRI BETEILLE - INEQUALITY AND SOCIAL CHANGE (OUP 1972).
8. P. GISKORT - FUNDAMENTAL OF SOCIOLOGY.
9. T.M. BOTOMER - SOCIOLOGY (GEORGE ALLEN & UNWIN BOMBAY)
10. KUSSRGSLY DAVIS - HUMAN SOCIETY
11. JOHNSON W. - SOCIOLOGY
12. M.N. SHRIBUVASAB - SOCIAL CHANGES IN MODERN INDIA
13. K.M. KAPADDIA - MARRIAGE AND FAMILY IN INDIA.
14. T.K.OOMEN & C.N. VENUGOPAL - SOCIOLOGY FOR LAW STUENT (EASTERN BOOK COMPANY, LUCKNOW)
15. INKELES ALEX - WHAT IS SOCIOLOGY ? (PRENTICE-HALL OF INDIA)
16. JAYARAM N. - INTRODUCTORY SOCIOLOGY (MAC MILLAN MADRAS)
17. HARRY M. JOHNSON -SOCIOLOGY A SYSTEMATIC INTRODUCTION BHARTIYA SAMAJ.
18. INDRA DEVA - BHARTIYA SAMAJ.
19. MADAN C.R. - SOCIAL PROBLEM IN INDIA.

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**PAPER - III**  
**HISTORY**

**UNIT – I**

History of India – Up to 320 B.C.

Vedic Age- A brief introduction of the social, political, legal and religious infrastructure in Vedic times

The organization of Central Government in ancient India

The village republics, *mahajanspadas*

The ancient law givers- *Manu, Vrihaspati, Yaghyavalakya, Katyayana*

The *Varnashram* system

Position of women in ancient India

**UNIT- II**

320 B.C. to 648 A.D.

The sources, the administrator system of the Mourays, Guptas, & Harshvardhanas with special reference to-

The Central Government

Provincial administration

Local administration

Economy, revenue, agriculture, military organization, feudal system, law and justice,

social infrastructure- Caste system, position of women education

**UNIT – III**

648 A.D. to 1206 A.D.

Historical Sources

A brief political history of the work Indian Rajput dynasties

The partiharas, chahmanas, polas, senas. Chaulukyias (Solanky)

Paramars and Kalchuris of chedi with special reference to their- administration system, central, provincial, village

Economic system: agriculture, revenue

Lw and justice

Military organization

Caste system: position of women, education

**UNIT- IV**

648 A.D. to 1206 A.D.

-The South Indian Dynasties.sources

A brief political history of the Chalukayas  
The Cholas and the Rashtrakutas with special reference to their- administrative system  
central, provincial, local

UNIT-V

648 A.D to 1206 A.D.

Economy: agriculture, revenue, trade and commerce


Law and justice

Military organization

Social system: caste system, position of women

### **Books Recommended**

1. History of India – Elliot & Dowson
2. Ancient India- V.D. Mahajan
3. Ancient India- R.C. Majumdar
4. History of India L.P. Sharma
5. Comprehensive history of India – Henry Bemeridge
6. Private & Government in Ancient India A.S. Altekar
7. Background of Indian criminal law – T.K. Banarjee
8. The political legal and military history – H.S. Bhatia
9. Evlution of Indian culture – B.N. Luniya
10. Indian history – L. Prasad

  
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## PAPER- IV

### LEGAL HISTORY (1600-1857)

#### Unit 1st

- (a) Administration of justice in presidency towns - Surat, Bombay, Madras and Calcutta.
- (b) Provisions of Charter of 1687 and Charter of 1726, Merits and Defects of the Charter.
- (c) Distinction between the Madras Charter 1687 and the Charter of 1726
- (d) Provisions of Charter of 1753, critical estimate of the working of the Mayor Courts from 1726 to 1753.

#### Unit 2

- (a) Inauguration of Adalat system in Bengal, Grant of "Diwani" dual government of Bengal
- (b) Warren Hasting's judicial plan of 1772, 1774 & 1780.
- (c) Judicial measures of Cornwallis 1787, 1790, 1793, progress of Adalat system under John Shore to William Bentick.
- (d) Regulating Act 1773, its provisions powers and functions, merits and defects of the Act.

#### Unit 3

- (a) Provisions of Charter of 1774 Supreme Courts of Calcutta its composition, powers and functions. Critical estimate of the provisions of judicial charters of 1774.
- (b) Some landmark cases and its effects on judicial system including Raja Nand Kumar case, Patna case and Cassijurah case
- (c) Changes under Settlement Act of 1781 and Pitts India Acts 1784.
- (d) Establishment of Madras and Bombay presidency.

#### Unit 4

- (a) Development of criminal law, Hindu law and Muslim law in (1600 to 1853)
- (b) Racial Discrimination
- (c) Charter Act 1813, 1833 and 1853
- (d) Law Commission & Codification

#### Unit 5

- (a) Privy Council- jurisdiction, Reorganization, Sui Generis body, Appeals History from India.
- (b) Development of legal profession in (1600-1853)
- (c) Development of Law Reporting In India, Growth of justice, Equality and good conscience
- (d) Influence of English law in India

### Recommended Reading Material:

1. Herbert Cowell – The History and constitution of court and legislative Authorities in India (1936) (6th End. Published by S.C Bagechi , Calcutta)
2. A.B Keith – A constitutional History of India – 1600 – 1935) (central book Deptt. Allahabad)
3. M.P. Jain - Out lines of Indian Legal History. (Tripathi ) (1998)
4. M.V.PAYLEE - Constitutional History of India-(1600-1950)(Asia-Bombay-1967 )
5. V.D.KULSHRESTRA – Land mark in Indian Legal History(Eastern Book Co.Lucknow)
6. M.RAMAJOIS WAJONS – Legal & Constitutional Theory of India (1984)(2 roles)
7. Dr.N.V. Paranjare-Indian legal &Constitution History 6th edition (Central Law Agency)

### SYLLABUS FOR B.A.LL.B SEMESTER-II

| S.No               | Papers                                      | Max. Marks |
|--------------------|---------------------------------------------|------------|
| 1                  | English-II                                  | 100        |
| 2                  | Economics                                   | 100        |
| 3                  | Political Science-I                         | 100        |
| 4                  | Constitutional History of India (1858-1950) | 100        |
| <b>Total Marks</b> |                                             | <b>400</b> |

**PAPER - I**  
**ENGLISH - II**

**UNIT-I VOCABULARY :**

- (a) Foreign words and Phrases (Important Latin & English affixes)
- (b) Certain set expression and phrases
- (c) One word substitution
- (d) Words often confused and misused
- (e) Consulting a dictionary - synonyms and antonyms

**UNIT-II COMPREHENSION SKILLS :**

- (a) Common Logical fallacies
- (b) Use of legal terms and idiomatic expression.
- (c) Comprehension of legal texts.

**UNIT-III COMPOSITION SKILLS :**

- (a) Use of cohesive devices.
- (b) Passage and answer to its question
- (c) Writing of a precise of the passages

**UNIT-IV ESSAY & TRANSLATION :**

- (a) Essay writing on current topic
- (b) Varieties of sentence structure and verb patterns.
- (c) Translation from English to Hindi and Hindi to English.
- (d) Fill up the blanks by using appropriate word and phrases.

**UNIT-V SPEECH TRAINING (PHONETICS THEORY & PRACTICE)**

- (a) Reading aloud (Knowledge of proper pauses)
- (b) Key sounds their discrimination and accent.
- (c) Consulting pronouncing dictionary.
- (d) Rapid Reading and debating exercise.

**RECOMMENDED RADING MATERIAL :**

1. Ishtiaque Ibidi, - Law and English (University Publication Aligarh, 1978)
2. Legal Glossary - Government of India Ministry of law publication, New Delhi.

3. Legal Essay - Pioneer publication, Agra.
4. Maurice H. Wassen - Words Confused and Misused (A.H. Wheelar co., Allahabad).
5. Denial Jones - The Pronunciation of English (Universal Book Stall 6, Ansari Road, New Delhi-2).
6. Denial Jones - English Pronouncing Dictionary (Cambridge University Press)
7. Latin for Lawyers - Sweet & Maxwell - Universal Law Publishing Co. (P) Ltd. New Delhi.
8. Bansal & Harrison - Spoken English for India (O.U.P.)
9. Gimson - An Introduction to English Pronunciation (O.U.P.)
10. Black Legal Dictionary - West Publishing Co.
11. Collins - Legal Dictionary - West Publishing Co.
12. R.P. Sinha - How to Translate in to English (Bharat Bavan Patna)
13. Selected Materials drawn from renowned Judgments.

## PAPER- II

### ECONOMICS – I (MINOR)

#### Micro Economics

##### UNIT – I

##### **Introduction:**

Definition & Scope of Economics

Inductive and deductive methods of study of Economics

Basic Concepts: Utility, Demand, Supply

Law of demand

##### UNIT- II

##### **Consumer Behaviour**

Law of diminishing marginal utility, law of equi- marginal utility, consumer's surplus, - (classical approach only)

Elasticity of demand and its measurement and factors affecting elasticity of demand

Price elasticity, cross and income elasticity

##### UNIT- III

##### **Production**

Factors of production and their characteristic

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Guntur, Andhra Pradesh  
Ph: 0863-2462110

Concept of cost and revenue curves  
Law of returns

**UNIT- IV**

**Product Pricing**

Market and its classification  
Price determination under perfect competition  
Price determination under monopoly  
Price determination under monopolistic competition

**UNIT – V**

**Factor Pricing**

Rent – Ricardian theory and modern theory of rent  
Wages – marginal productivity and modern theory of wages  
Interest – net and gross interest liquidity preference theory of Keynes  
Profit – net and gross profit, theories of profit – Schumpeter's, Clark's, Knight's

**Books Recommended**

|              |                 |
|--------------|-----------------|
| P.N. Chouhan | Micro Economics |
| M.L. Seth    | Micro Economics |
| M.L. Sinha   | Micro Economics |
| K.K. Deweth  | Micro Economics |



### PAPER - III

#### POLITICAL SCIENCE – I (Major)

- UNIT-I** Nature origin and development of the state, Distinction between the state, society and Government. Nature and Nationality. Essential Element of the state. Classical theory of the State - Social contract theory of Hobbs, lock and -Russou and its comparison with modern (Marx, Weber, Emile. Durkhim) approaches to the notion of Political obligation, Bentham's Utilitarianism and view of Hegal and T.H. Green.
- UNIT-II** Main current of Western and Indian political thought. Medieval political thought (Natural Law and Natural rights) Liberalism. Socialism, and Marxism Classical Hindu and Islamic conception of State.
- UNIT-III** Definition of Sovereignty. Its characteristics, Political ----- and Legal sovereignty, Law and Morality. Law and state Pluralistic criticism of the theory of Sovereignty, Totalitarian State.
- UNIT-IV** Classification of constitution and state Unitary and Federal. Parliamentary and Presidential characteristics. Organization of Government-Executive. Legislature and Judiciary. Theory of Separation of power, Parliamentary Supremacy Legal Supremacy and Independence of Judiciary.
- UNIT-V** Conception of representation, Public Opinion and Participation. Political thought of Mahatma Gandhi. The Philosophy of Non-Violence, Gandhi's view on Economic and Religions.

#### RECOMMENDED READING MATERIAL :

1. IQBAL NARAIN - PRINCIPLES OF POLITICAL THOUGHT.
2. AASHIRVADAM E. - POLITICAL THEORIES
3. R.C. AGRAWAL - POLITICAL THOERY.
4. G.N. SINGH - FUNDAMENTAL OF POLITICAL SCIENCE AND ORGANISATION (KITAB MAHAL ALLAHABAD).
5. G.H. SABINE - A HJITORY OF POLITICAL THEORY (OXFORD-1973)
6. GANBA - INTRODUCTION OF POLITICAL THEORY

7. B.R. PUROHIT - RAJNITI SHASTRA KE MOOL SIDDANT  
(RAJAMDI GROWTH ACADAMY JAIPUR)
8. C.F. STRONG - MODERN POLITICAL CONSTITUTION.
9. S.P. VERMA - MODERN POLITICAL THEORY (VIKAS)
10. G. SAWER - MODERN FEDERALISM (C.A. WATT  
LONDON-1969)
11. GEORGE LICH TOCLM-A SHORT STORY OF SOCIALISM.



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**PAPER - IV**  
**CONSTITUTIONAL HISTORY OF INDIA (1858-1950)**

**Unit I**

- (a) The Government of India Act 1858, Main provisions, merits & Demerits of the Act.
- (b) The Indian Council Act 1861 circumstances, main provisions, merits & Demerits.
- (c) Government of India Act, 1870.
- (d) The Indian Councils Act, 1892, provisions, merits & demerits and its main contribution in the Act.

**Unit II**

- (a) The Indian Council Act 1909 (Minto – Morley Reforms), Provisions, effect & defect of the Act
- (b) World War First and its effect in Constitutional Development in India
- (c) The Government of India Act, 1919, The Montague Declaration, failure of the Montfort Reforms.
- (d) The working & failure of Dyarchy System.

**Unit III**

- (a) The Simon Commission and development Up to 1935 Act.
- (b) Nehru Report 1928, Rejection of Nehru Report and Fourteen Points Report by Muslim League.
- (c) The National Movement and Communal Award of Poona Pact.
- (d) Lord Irwin's Proclamation 1929.

**Unit IV**

- (a) The Government of India Act 1935- Main Provisions, Effect of the federal System in India, Merits & Demerits of the Act.
- (b) Constitutional Development 1937 to 1947. Two nation theory and Pakistan.
- (c) The August Offer 1940, Cripps Mission 1942, Wavell Plan 1945, Simla Conference, Round Table Conference.
- (d) Cabinet Mission 1946, Mountbatten Plan 1947, The Indian Independence Act 1947

**Unit V**

- (a) The Indian High Court Act 1861, Letters Patent establishing High courts, Indian High Court Act 1865 and 1911.
- (b) The Federal Court of India 1935-foundation, functions & powers, Abolition of Federal Court.
- (c) The Supreme Court of India-origin, Jurisdiction and Powers.
- (d) Origin and Development of the Writ System in India.

### Recommended Reading Material:

1. Herbert Cowell – The History and constitution of court and legislative Authorities in  
in
2. India (1936) (6th Ed. Published by S.C Bagchi , Calcutta)
3. A.B Keith – A constitutional History of India – 1600 – 1935) (central book Deppt.  
Allahabad)
4. M.P. Jain - Out lines of Indian Legal History. (Tripathi ) (1998)
5. M.V.PAYLEE - Constitutional History of India-(1600-1950) (Asia-Bombay-  
1967 )
6. V.D.KULSHRESTRA – Land mark in Indian Legal History(Eastern Book Co  
Lucknow)

### SYLLABUS FOR B.A.LL.B SEMESTER-III

| S.No               | Papers                                                          | Max. Marks |
|--------------------|-----------------------------------------------------------------|------------|
| 1                  | Political Science – II(Major)                                   | 100        |
| 2                  | History – II (Minor)                                            | 100        |
| 3                  | Economics – II (Minor)                                          | 100        |
| 4                  | Contract-I (General Principles of Contract and specific Relief) | 100        |
| <b>Total Marks</b> |                                                                 | <b>400</b> |



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## SYLLABUS FOR B.A.LL.B SEMESTER-IV

| S.No               | Papers                                                               | Max Marks  |
|--------------------|----------------------------------------------------------------------|------------|
| 1                  | Political Science – III (Major)                                      | 100        |
| 2                  | Sociology – II (Minor)                                               | 100        |
| 3                  | Political Science – IV (Major)                                       | 100        |
| 4                  | Contract - II (Specific Contract ) Sale of Goods and Partnership Act | 100        |
| <b>Total Marks</b> |                                                                      | <b>400</b> |

### PAPER – I

#### **POLITICAL SCIENCE – II (Major) INTERNATIONAL RELATIONS AND ORGANISATION**

- UNIT-I** Nature and scope of international relations and foreign policy. Approaches to the study of international relations (a) historical approach (b) Philosophical approach (c) System approach - Balance of power approach, Equilibrium approach, Bipolar approach (d) Policy science approach - Behavioral approach (e) Hon. J. Morgenthau Theory of Realism.
- UNIT-II** Emergence of nation state system - Feudalism : Colonialism, Imperialism and nationalism in Asia, Marxist, Anarchist and welfare. Characters of modern state system, cold war, New world order.
- UNIT-III** International Organization - Development of International League of Nations, Origin, Membership, Aims Organization of the league of Nations functions & causes of its failure & its evaluation.
- UNIT-IV** The United Nations organization (UNO) - Genesis and development, basic principles, membership, Principal organs of the U.N.O. - General Assembly Security Council, Economic and Social Council, Trusteeship Council, International court of Justice and secretariat. Subsidiary organs of United nation U.N. Social Development committee, Human Rights Commissions.

International Commodity Trade Commission, Specialized and functional agencies, ILO, IMF, WHO, UNESCO, UNICEF, United Nations and settlements of International Disputes, Evaluation of the U.N.O.

**UNIT-V** Regionalism in international relations Emergence of regional organization and the development of regional groups NAN, ASIAN, SAARC, NATO Regionalism and the U.N.O.

**Recommended Reading Material :**

1. D.N. Verma - International Relations
2. M.G. Gupta - International Politics Science 1919.
3. K.K. Mishra - International Politics
4. B.S. Murthy - International Relations and Organization (EBC Lucknow)
5. K.P. Mishra - The Concept of nonalignment and its implication and Recent Trends.
6. Hans Morgenthau - Politics among nations - The struggle for power and place (New York knopp. 1955)
7. Quincy Wriath - Study of International Relations, (New York - appleton Century croft) (1955)
8. D.W. Bowelt - International institution, London Mac Millan (1914)
9. S.P. Verma - Modern Political Theory (Vikas 1981)
10. G. Sawyer - Modern Federalism, London - C.A. Watts 1969.
11. G.H. Sabine - A History of political Theory (Oxford)



**PAPER-II**  
**HISTORY-II (MINOR)**

**UNIT- I**

History of India A.D. 1206-1526

The advent of Islam in India sources, the Delhi Sultnat- Iltutmish, Balban, AluddinKhiljee, Mohd.Tughluq, Firoz Tughluq

**UNIT – II**

The concept of Islamic State- the theory of kingship, control, provincial and local administration, administration of law and justice, military organization, economy under the sultnate - revenue, agriculture, society, position of women, education

**UNIT- III**

The Mughal Empire 1526-1740 Sources- A brief political history from Barber to Aurangjab with special reference to the administration of Shershah, Akbar and Auranjab

The emergence of the Maratha power – Shivaji and his administration

**UNIT – IV**

The administration under the Mughlas, Nature of State, theory of kingship, control, provincial and local self Government- revenue administration, agriculture, military administration, manasabdari system, law of justice

**UNIT- V**

Impact of Islam on Indian society, poverty and economy  
Bhakti and Sufi Movements

**Books Recommended**

11. History of India – Elliot & Downson
12. Ancient India- V.D. Mahajan
13. Ancient India- R.C. Majumdar
14. History of India L.P. Sharma
15. Comprehensive history of India – Henry Bemeridge
16. Private & Government in Ancient India A.S. Altelkar
17. Background of Indian criminal law – T.K. Banarjee
18. The political legal and military history – H.S. Bhatia
19. Evlution of Indian culture – B.N. Luniya
20. Indian history – L. Prasad

**PAPER—III  
ECONOMICS**

**UNIT – I**

Basic features and structure of Indian Economy  
Demographic features and population policy of India  
National income estimation and its trends in India

**UNIT – II**

Basic feature of Indian agriculture  
Emerging trends in agricultural production and Green Revolution  
Problems of agricultural marketing in India  
Agricultural credit: sources and problems

**UNIT – III**

Latest Industrial policy  
Cottage and small- scale industries and their problems  
Globalization and Indian industry  
Role of public, private and joint sector in India

**UNIT- IV**

Objectives and strategy of planning in India  
Analysis of current five year plan  
India regional variations in economic development in India  
Central State financial relations- role of finance commission and recommendation of latest Finance commission in India

**UNIT – V**

Poverty- concepts and trends in India  
Unemployment- causes and types unemployment  
Various Govt. measures for the eradications of poverty and unemployment  
Problems and rising prices and its impact of Indian economy

**Books Recommended**

|                   |                |
|-------------------|----------------|
| Mishra & Puri     | Indian economy |
| P.K. Dhar         | Indian economy |
| Dutta and Findrem | Indian economy |
| P.S. Gongane      | Indian economy |



**PAPER—IV**  
**CONTRACT - I**

**(General Principles of contract & Specific Relief)**

This paper is divided in to two parts - Part one and Part Two : Part I is related with General Principles of Contract. It covers section 1 to 75 of Indian Contract Act. While Part-II is related with Indian Specific Act. Three units covers the course of Part-I while other two units are related with Specific Relief.

**PART - I - CONTRACT**

**UNIT-I NATURE OF CONTRACT, COMMUNICATION ACCEPTANCE AND REVOCATION OF PROPOSAL (sec. 1 to sec. 9)**

- (a) General History and Nature of Contract, Distinction between Torts and Contract, agreements and contracts, Essentials of contract & consideration.
- b) Interpretation clause communication of proposals. Its various means and its completion.
- c) Acceptance - Its certainty and absoluteness manner of Acceptance, Acceptance by performing conditions and General offers.
- d) Revocation of proposal and acceptance - Revocation of offer. How it is made ? Revocation on sale by auction, Revocation before acceptance of bid and Revocation in standing orders.

**UNIT-II AGREEMENT AND CONTRACT - VOID VOIDABLE AND CONTINGENT (Section 9 to 36)**

- (a) Agreement and contract - Which agreements are contract ? Competency to perform contract : factors which affects the legality of contracts - minority unsoundness etc.
- b) Lack of free consent, coercion, undue influences, fraud and misrepresentation and their effect on contract.
- c) Effect of mistake of law and mistake of fact on contract. How an unlawful consideration and object made a contract and agreement illegal and void?
- d) Contingent contract - What are they ? its effect on the legality of contract.

### UNIT-III PERFORMANCE OF CONTRACT QUASI CONTRACT & BREACH OF CONTRACT (sec. 37-75)

- a) Performance of Contract - Which and by whom contract must be Performed ? Performance if time, place and manner is mentioned in contract. Performance of reciprocal promises.
- b) Effect of failure in performance - when agreement was impossible to do or when act after words impossible and unlawful. Doctrine of frustration and its effects : contract which need not be perform and effect of novation --- and alteration of contract.
- c) Quasi contract - certain relation resembling those created by contract (68 to 72)
- d) Consequences of breach of contract - Compensation for loss or damages caused by breach of contract, compensation for failure to discharge obligation resembling those created by contract. Compensation for breach of contract where penalty stipulated and position of partly rightfully rescinding contract.

### PART - II - SPECIFIC RELIEF

#### UNIT-IV SPECIFIC RELIEF ACT AND ITS APPLICABILITY (Section 1 to 24)

- a) Specific Relief Act and its applicability - Definition. Recovering possession of property; immovable and movable (Sec. 1 to 8)
- b) Specific performance of contract - Contract which can be specifically enforced and contract which can not be specifically enforced. (Sec. 9 to 14)
- c) Person for or against whom contract may be specifically enforced. (Sec 15-19)
- d) Discretion and Powers of the courts in decreeing specific performance awarding compensation and granting relief. liquidation of damages and Bar of suit for compensation for breach after dismissal of suit for specific performance. (Sec. 20-24).

**UNIT-V ENFORCEMENT OF AWARDS RATIFICATION, CANCELLATION, DECREE AND INJUNCTIONS (Sec. 25 to 42)**

- a) Enforcement of awards and Direction to execute settlement and Rescission of contract.
- b) Rectification and cancellation of Instrument.
- c) Declaratory Degree - Discretion of court as to declaration of status or right and effect of declaration.
- d) Injunctions - Temporary & perpetual and mandatory. Refusal of injunction Damages in lieu of or in addition to injunction. and injunction to perform negative agreement.

**Book Recommended :**

1. Ansons Law of Contract (1998) Universal, Delhi.
2. Pollock and Mulla - Indian Contract and specific Relief Acts. 1999, Universal  
650/-
3. Sarkar on Specific Relief Act. - Wadhwa, Nagpur.
4. Avtar Singh - Law of Contract, EBC, Lucknow.
5. Avtar Singh - Law of Contract and Specific Relief EBC, Lucknow.
6. Benerjees - Law of Specific Relief, Universa
7. Anand & Ayer Law of Specific Relief, Universal
8. Bangia R.K. - Law of Contract and Specific Relief 595/-
9. G.H. Treital - Law of Contract, Sweet & Maxwell 1997.


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SYLLABUS FOR B.A.LL.B SEMESTER-IV

| S.No               | Papers                                                               | Max Marks  |
|--------------------|----------------------------------------------------------------------|------------|
| 1                  | Political Science – III (Major)                                      | 100        |
| 2                  | Sociology – II (Minor)                                               | 100        |
| 3                  | Political Science – IV (Major)                                       | 100        |
| 4                  | Contract - II (Specific Contract ) Sale of Goods and Partnership Act | 100        |
| <b>Total Marks</b> |                                                                      | <b>400</b> |

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**PAPER – I**  
**POLITICAL SCIENCE-III (MAJOR)**  
**(Comparative Government and Politics)**

Unit – I

British Constitution- (a) Introduction to the British Constitution. Sources of the Constitution. Salient features.  
(b) Prime Minister, Crown, Parliament.

Unit – II

Constitution of America - (a) Historical background of the Constitution. Making of the Constitution. Nature and Salient features of American Constitution.  
(b) President. Congress. Judiciary.

Unit – III

Swiss Constitution- (a) Historical background of the Constitution. Salient features.  
(b) Federal assembly, Federal council, Direct democracy.

Unit- IV

Constitution of Japan –(a) Historical background . The Nature and characteristics of the Japanese, The Rights and duties of the People.  
(b) The Emperor, Legislature (The Diet), Judiciary.

Unit - V

Comparative study- federal system of America and Switzerland. House of Lords and Senate. power and functions of President of America and the Prime Minister of U.K.

**Suggested Readings**

|                  |                                    |
|------------------|------------------------------------|
| D.D. Basu        | Constitution of India              |
| Dr. S.C. Singh   | विभिन्न संविधान                    |
| Dr. Pukhraj Jain | विभिन्न संविधान                    |
| Dr. V.P.Singh    | World Famous Constitution in Hindi |
| M.V.Pylee        | Select Constitution of the World.  |
| D.D.Basu         | Comparative Federalism.            |

PAPER – II

SOCIOLOGY – II (MINOR)

SOCIOLOGY OF INDIA

- UNIT-1 (a). View about Indian society.  
(b).The Classical Views : Verna, Ashram Karma and dharma.  
(c).Field views : M.N. Shrinivas And S.C. Dubey  
(d).Significance and ineterface of classical and field views
- UNIT-2 (a). The structure and Composition of Indian society.  
(b). structure : villages, Towns, Cities And Rural – Urban.  
(c). Linkage composition : Tribes, Dalits, Women And Minorities.
- UNIT-3 (a).Basic Institutions of Indian society.  
(b).Caste system, kinship, family, family marriage class, changing dimensions.
- UNIT-4 (a) Familial Problems .  
(b) Dowry, domestic violence, divorce, intra- intergenerational conflict problem of elderly.
- UNIT-5 (a) Social problems.  
(b) Casteism, Regionalism, Communalism, Corruption, Youth unrest.

**RECOMMENDED READING MATERIAL :**

1. PELER WESSELEY - INTRODUCTION SOCIOLOGY (HERMOND-WORTH PENGUINE BOOK 1971)
2. N.K. BOSE - THE STRUCTURE OF HINDU SOCIETY (ORIENT LONGMAN-1975)
3. ROMESH THAPPER (ED)-TRIBE, CASTE, RELIGION AND INDIA (MACMILLAN) 1977.
4. MACIVER & PASE - SOCIETY.
5. DAVID GMUNDEL MAUM- SOCIETY IN INDIA (BOMBAY POPULAR PRAKASHAN, 1972).

6. ANDRI BETEILLI - THE BACKWARD CLASSES IN NEW SOCIAL ORDER (OUP 1984)
7. ANDRI BETEILLE - INEQUALITY AND SOCIAL CHANGE (OUP 1972).
8. P. GISKORT - FUNDAMENTAL OF SOCIOLOGY.
9. T.M. BOTOMER - SOCIOLOGY (GEORGE ALLEN & UNWIN BOMBAY)
10. KUSSRGSLY DAVIS - HUMAN SOCIETY
11. JOHNSON W. - SOCIOLOGY
12. M.N. SHRIBUVASAB - SOCIAL CHANGES IN MODERN INDIA
13. K.M. KAPADDIA - MARRIAGE AND FAMILY IN INDIA.
14. T.K.OOMEN & C.N. VENUGOPAL - SOCIOLOGY FOR LAW STUENT (EASTERN BOOK COMPANY, LUCKNOW)
15. INKELES ALEX - WHAT IS SOCIOLOGY ? (PRENTICE-HALL OF INDIA)
16. JAYARAM N. - INTRODUCTORY SOCIOLOGY (MAC MILLAN MADRAS)
17. HARRY M. JOHNSON -SOCIOLOGY A SYSTEMATIC INTRODUCTION BHARTIYA SAMAJ.
18. INDRA DEVA - BHARTIYA SAMAJ.
19. MADAN C.R. - SOCIAL PROBLEM IN INDIA.

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**PAPER – III**  
**POLITICAL SCIENCE-IV (MAJOR)**  
**(INDIAN GOVERNMENT AND POLICIES)**

**UNIT- I**

Making and sources of Indian Constitution, preamble, salient features of the Constitution, Nature of constitution

**UNIT – II**

Fundamentals Rights and duties, directive principles of state policy, Union and State legislature – organization and functions

**UNIT- III**

Union Executives: (President, Prime Minister) powers and functions

State Executives: (Governor and Chief Minister) power and functions

**UNIT – IV**

Indian Judiciary: Organization, powers and functions, Election Commission of India importance of Local self Government (Panchayati Raj System)

**UNIT – V**

Indian party system, influence of religion, caste, regionalism and language on Indian politics

**Suggested Readings**

Ashirvadam E.  
Sir E. Barker  
Las  
D. Held  
Tripti Jain  
Verma S.P.  
Dr. Om Nagpal

Modern Political Theory  
Principle of Social and Political Theory  
Grammar of Policies  
Political Theory  
Foundations of Politics  
Basic of Political Science  
Foundations of Political Science



## PAPER IV

### CONTRACT - II

(Indian contract Act (See 124 to End) Sales of Goods & Partnership.

#### UNIT-I Indemnity & Guarantee (See 124 to 147)

Contract of Indemnity : Definition, its commencement and extent of indemnifiers liability, His right and when he can sue ? (See 124-125).

Contract of Guarantee : Guarantee and indemnity, surety consideration continuing guarantee and its revocation (see 126-132)

Discharge of surety and principle debtor, co-surety and remedy for omission (see 133 to 139).

Guarantee and Mental aspects ; Uberrima fides, liability of surety and co-surety in contribution (see 140-147) and suit by bailees or bailor against wrongdoer and apportionment of relief and compensation (see 180-181).

#### UNIT-II Bailment & Pledge (Sec. 148 to 181)

Bailment : Definition of Bailor and Bailee and its kinds ; mode of delivery of goods bailed, duty of bailor and bailee to each other and exemption, mixing good bailed and its consequences (sec. 148 to 157).

Repayment of expenses increased by bailer ; restoration and return of goods ; consignor as a bailor, his right to sue if consignment is not returned ; Gratuitous bailment and effect of death on it. Bailor's rights and responsibility to bailee and right of third person. (sec. 158 to 167).

Position of finders of goods, His liability towards owners ; and his obligation to keep goods safe and rig... to dispose of good (if perishable). Bailee's lien and general line of Bankers etc. (sec. 168 to 171)

Bailment of Pledge : Pawner and Pawnee ; their rights, right to redeem in case of default. Pledge by merchantile against, Pledge under voidable contract and pledgor with limited interest (172 to 179)

#### UNIT-III Agency - (sec. 182 to 238)

Appointment and authority of agent who is agent and principle ? Who and by whom an agent may be appointed ? Mode of

appointment of agents. Duties and rights of agent and his authority, sub-agent and his position under the act, delegation of power, His responsibility towards agent and principle. (sec. 182 to 195).

Ratification its mode and its effect. Ratification of unauthorised act. Revocation of authority and its various mode termination of agency, compensation for revocation. Revocation and renunciation position of partys after termination of authorities. (sec. 196 to 210).

Agents various duties towards principles, position when agents remuneration is due ? and Agents lien in principal's property. (sec. 211-221).

Principles duty to agent : His right to be indemnified against consequences of lawful act and acts done in good faith and for negligent act of principal, Principals liability for ultra vires act of agent, agent is not personally liable on behalf of principal, liability of the principal for acts of agent including misconduct of the agent. Effect of Fraud and his representation of the agent. (sec. 222-238).

#### **UNIT-IV Sales of Goods : Partnership :**

Sales of goods act 1930 (Whole Act) which includes concept of sale on contract instances of sale of good and the nature of such contract, essentials of contract of sale, essential condition in every contract of sale, implied terms in contract of sale, the sale of caveat emptor and the exceptions there to under the sales of goods act. Changing concept of caveat emptor. Effect and meaning of implied warranties in a sale, transfer of tittle and passing of risk. Delivery of goods : various rules regarding delivery of goods. Unpaid seller and his rights. Remedies for breach of contract.

##### **Partnership Act 1932**

Provisions of Indian Partnership Act 1932, including - definition and nature of partnership. Advantage and disadvantages vis a vis partnership and private limited company. Mutual relationship between partners. Authority of partners, admission of partners, outgoing of partners. Registration of patanership & Dissolution of partanership.

#### **UNIT-V Leading Cases relating to the Paper**

- (1) Bank of Bihar v. Dr. Damodar Prasad (AIR, 1969 SC. 297)
- (2) Lallan Prasad v. Rahmat Ali (AIR 1967, SC 1322)
- (3) PSNS Ambalrana Chettiar Co. v. Express News Papers Ltd.,  
Bombay (AIR 1968,  
SC 741)
- (4) K.K. Shah v. Mrs. K.B. Dadiba (AIR 1970 S.C. 1147)

- (5) Bina Murlidhar Hunde V. Kanahiyalal lakram Hunde (AIR 1999 SC 2171)
- (6) M/s. Lalliwal Biharilal v. Rambaboo Vaishya (AIR 1990 M.P. 64)
- (7) Premlata v. M/s. Ishwar Das Chamanlal (AIR 1995 S.C. 714)
- (8) Gherulal Parekh v. Mahadeo Das (AIR 1959 S.C. 78)

**Books Recommended :**

1. Avtar Singh - Contract Act (2000) E.B.C. Lucknow.
2. Saharay H.K. - Indian Partnership a Sales of goods Act (2000)
3. Beatson (Ed.) - Anson's law of contract (1998) Oxford, Universal London.
4. J.S. Khergarwala - Negotiable Instrument Act
5. A.G. Guest (Ed.) - Benjamin's Sale of Goods (1992) Sweet & Maxwell.
6. Pollock Mulla on contract (1999) Tripathi, Bombay.
7. T.R. Desai - Contract sales of goods & Partnership
8. Indian Partnership Act 1932
9. Krishann Nair - Law of Contract (1999) Orient.
10. Avtar Singh - Principles of the law of sales & goods and hire purchase (1990) E.B.C. Lucknow.
11. Rawlings - The Sales of goods Act (1998) Universal.
12. Avtar Singh - Introduction to law of Partnership

**SYLLABUS FOR B.A.LL.B SEMESTER-V**

| <b>S.No</b>        | <b>Papers</b>                                                                                   | <b>Max. Marks</b> |
|--------------------|-------------------------------------------------------------------------------------------------|-------------------|
| 1                  | Jurisprudence and Legal Theory                                                                  | 100               |
| 2                  | Law of Torts including Motor Vehicle Act and Consumer Protection Laws                           | 100               |
| 3                  | Law of Crimes –I (I.P.C.)                                                                       | 100               |
| 4                  | Law of Crimes –II (Criminal Procedure Code , Juvenile Justice Act & Probation of Offenders Act) | 100               |
| <b>Total Marks</b> |                                                                                                 | <b>400</b>        |

**SYLLABUS FOR B.A.LL.B SEMESTER-VI**

| <b>S.No</b>        | <b>Papers</b>                                                       | <b>Max. Marks</b> |
|--------------------|---------------------------------------------------------------------|-------------------|
| 1                  | Law of Evidence                                                     | 100               |
| 2                  | Constitutional law -I                                               | 100               |
| 3                  | Constitutional law -II                                              | 100               |
| 4                  | Environmental law including Wild Life Protection and Animal Welfare | 100               |
| <b>Total Marks</b> |                                                                     | <b>400</b>        |

## SYLLABUS FOR B.A.LL.B SEMESTER-V

### PAPER - I

#### JURISPRUDENCE AND LEGAL THEORY

##### UNIT-I INTRODUCTION MEANING, NATURE AND SCOPE

- a) What is Jurisprudence? Its meaning, Nature & Scope.
- b) Its study as a basic problem concerning the law.
- c) Jurisprudence as a Normative Science its relation with other sciences
- d) Jurisprudence in Eastern scriptures both in Hindu and Muslims.

##### UNIT-II a) Jurisprudence and law - Definition of law its nature kind and classification.

- b) Law and morality state & law sovereignty
- c) Administration of justice
- d) Sources of law Custom, Legislations, Precedents, Religion and Agreement.

##### UNIT-III SCHOOLS OF JURISPRUDENCE THEIR EXPONANT AND THEIR VIEWS

- a) Historical and Philosophical
- b) Analytical Legal Positivism
- c) Sociological and Economical School
- d) Pure theory of law and Realist school, Indian Legal Thinker, Manu and Kautilya.

##### UNIT-IV LEGAL CONCEPTS

- a) Rights and Duties
- b) Possession and ownership
- c) Person
- d) Title

##### UNIT-V LIABILITY PROPERTY OBLIGATION & EVIDENCE

- a) **Liability** - Definition, Nature, Kind - Civil and Criminal  
General conditions of liability - Negation, Their Theories

Subjective & Objectives, Mental aspects, Duty of care, Standard & Care, Exemptions for Liability.

- b) **Obligation** - Definition, kinds and sources of obligation.
- c) **Property** - Its meaning and kinds and theories mode & acquisition, Its relation with law.
- d) **Evidence** - Procedural and Substantial, Element of Judicial procedure Evidence its nature and kinds.

#### **BOOKS RECOMMENDED -**

1. HLA Hart - The Concepts of Laws (Oxford) ELBS
2. Salmond - Jurisprudence (Tripathi) Bambay
3. G.W. Paton - Jurisprudence (Oxford) ELBS
4. RWM Dias - Jurisprudence (Indian Rep.) (Aditya), New Delhi.
5. V.D. Mahajan - Jurisprudence Legal Theory (EBC), Lucknow
6. W. Fridmann - Legal Theory (1999) (Universal) Delhi.
7. S.N. Dhyani - Jurisprudence - A study of Indian Legal Theory (Metropolitan), New Delhi.

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## PAPER -II

# LAW OF TORTS INCLUDING MOTOR VEHICLE ACCIDENT ACT & CONSUMER PROTECTION LAWS

### UNIT-I LAW OF TORTS

#### **Definition, Nature, Scope, Object & General Principles of Law of Torts:**

Historical Background of law of Torts - Evolution in England and India, Form of Action and its un-codified characters. It's Indian Origin from the principles of equity justice and good conscience.

Definition Torts : Its comparison with crime and breach of contract, its nature, purpose and functions, general principles of liability, its kinds, demum sine injuria and injuria sine demnum. General Elements in torts - Acts and omission voluntary and non-voluntary act.

Mental Element in torts - Malice, intention, negligence, motive, recklessness, carelessness, malafide, malfeasance, misfeasance, non-feasance and fault.

#### **UNIT-II Immunities, Justification, Remedies, Discharge and Effect of Death.**

Immunities from tortious liability, Justification and defences in action of torts - Act of God Act of State, Judicial act, inevitable accident, Private defence, necessity, consent, leave and license.

Remedies - damages and its kind, quantum of damages, injunction and its types, Specific restitution of property, joint-tort feasons, contribution between wrongdoer, remedies under constitution and compensation as prescribed by statutes, self help, distress damage feasant, discharge of torts - by accord and satisfaction, waiver by election, release acquiescence judgment recovered and statute of limitation and effect of death on tort claim.

#### **Wrongs relating to person & property relations; rights:**

Wrongs relating to person, assault, battery, false imprisonment and malicious prosecution. Wrong relating to domestic and other rights. Intimidation and conspiracy, fraud and deceit.

Wrongs relating to immovable - trespass to land, trespass by animal, trespass conversion and detention.

### **UNIT-III NEGLIGENCE, Nuisance, Defamation and Liability for Wrongs Committed by Others:**

**Negligence** - Its nature, condition and exception, negligence of various persons is occupied, carriers counsel, doctors, animal keepers, dangerous goods holder, street and statutory duty and contributing negligence.

**Nuisance** - Nature classification and kind injury to property and remedies.

**Defamation** - Its kinds libel and slander, its definition and essentials, repetition, defences in defamation and remedies for defamation.

**Liability for wrongs committed by others** - liability by ratification by relations i.e. master and servants, principal and agent, owner and independent contractor, liability of the State, doctrine of common employment, liability for abatement, absolute and strict liability.

### **UNIT-IV THE MOTOR VEHICLES ACT, 1988:**

Introduction- aims and objects of M.V.A. title, extent and commencement of the act with modification, definitions, licensing of drivers of motor vehicles(Ss 3-28), licensing of conductors of stage carriages.(Ss 29-38), registration of motor vehicles.(Ss 39-65), control of transport vehicles.( Ss 66-96), control of traffic,(Ss 112-138), liability without fault in certain cases,(Ss 140-144), insurance of motor vehicles against third party risk,(Ss 145—164), claims tribunals,(Ss 165-173), offences, penalties and procedure.(ss174-205), power of police officer to impound documents and detain vehicles used without certificate of registration, permit etc., summary disposal of cases, appeal and revision on orders passed by original authority,

The first schedule and the second schedule.

### **UNIT-V THE CONSUMER PROTECTION ACT, 1986**

Introduction- Aims, object and scope of Consumer Protection ACT, Definitions, Central Consumer Council, State Consumer Council.

Consumer Disputers Redressal Agencies- Composition, Jurisdiction and function of district forum, State Commission and National Commission, Procedure adopted in dealing with complaint and appeal cases, Enforcement and execution of orders by Consumer Fora under section 25 and 27 of Consumer Protection ACT,1986.



#### LEADING CASES:

1. Indian medical association vs. V.P. Shantha (AIR1896 SC530)
2. Lucknow Development Authority vs. M.K. Gupta (AIR1994 SC787)
3. Kasturi lal Ralia Ram vs. State of U.P. (AIR 1955, S.C.1939)
4. Saheli & woman resource centre vs. commissioner of police (AIR1990 S.C.51)
- 5 M.C. Mehta vs. Union of India (AIR1987 SC1086)

#### Books Recommended:

1. Ratanlal Dhirajlal - The law of torts (1997), Wadwa Nagpar.
2. Winfield and Jolowitz - on Torts (1999) Sweet & Maxwell, London.
3. Salmond and Houston - Tort (1999) Butterworth, London.
4. P.S. Achutan Pillai - The Law of Torts (2004) E.B.C. Lucknow.
5. D.N. Saraf - Law of consumer protection in India (1995) Tripathi.
6. P.R. Majundar - Law of consumer protection in India (1998) Orient. New Delhi.
7. Ramaswami Aiyer - Law of Torts (1999) Tripathi, Bombay.
8. M.D. Chaturvedi – Apkrtyo ki vidhi (1998) EBCL (in Hindi)

**PAPER – III**  
**LAW OF CRIMES**

**UNIT-I HISTORY EXPLANATION PUNISHMENT & GENERAL EXCEPTIONS**

- (a) History of Criminal Law & Applicability of Indian Penal Code. Salient Feature of IPC (Sec. 1 to 5)
- (b) General Explanation and definition in the code (Chapter II)
- (c) Important section relating to punishment - its nature, simple & rigorous punishment solitary confinement . Fine General rules of commutation and termination of punishment on payment of fine, limit of punishment in several offences. Discretion in awarding punishment.
- (d) General exceptions - factors negating guilty intention, mental incapacity, minority, insanity involuntary intoxication.

Private defence - When private defence extent to causing the death to protect body and property, necessity and mistake of fact, (Sec. 76 to 106)

**UNIT-II ABETMENT CRIMINAL CONSPIRACY AND OFFENCES AGAINST THE PUBLIC TRANQUILITY AND PUBLIC HEALTH AND OF FALSE EVIDENCE (Chapter V, V-A, VIII, XI)**

- a) Abatement - Abettor etc. (Chap. V)
- b) Criminal Conspiracy (Chap. VA) and sedition (Chap. 124A)
- c) Offences against the public tranquility safety and health - Unlawful assembly, Rioting, Affray, Public Nuisance, Adulteration, Rashly Driving & Obscenity.
- d) False Evidence - Giving false evidence and fabricating false evidences & Harboring offenders.

**UNIT-III OFFENCES AGAINST HUMAN BODY (Chapter XVI)**

- a) Culpable Homicide, Murder, Distinction between culpable homicide and murder, mental element required for murder, situation justifying, treating murder as culpable homicide not amounting to murder, Grave and sudden provocation, causing death by negligence and dowry death. (Sec. 299 to 304b)
- b) Injuries to unborn children - Miscarriage with or without consent. Rash and Negligent act causing death (Sec. 312-317)

- c) Hurt - Grievous and simple, voluntarily and involuntarily and on provocation, wrongful restraint and wrongful confinement. (Sec. 349 to 358)
- d) Criminal force and assault, Kidnapping from lawful guardianship and from outside India. Abduction (Sec. 359 to 362) Rape, custodial rape and unlawful offences.

#### **UNIT-IV OFFENCES AGAINST PROPERTY (Chapter XVII)**

- a) Theft, Extortion Robbery & Decoy and its various forms.
- b) Criminal misappropriation of Property, Criminal Breach of trust and receiving stolen property and its various forms and manners. (Sec. 403-414)
- c) Cheating and cheating by persons and dishonesty fraudulent removal and disposition of property. (Sec. 415-424)
- d) Mischief, Mischief by hurt and intimidation, criminal trespass, house trespass and its form. House breaking and its forms.

#### **UNIT-V OFFENCES RELATING TO DOCUMENTS, MARRIAGE REPUTATION AND HONOUR**

- a) Forgery and its various forms Making false documents, Property marks and Bank notes.
- b) Cohabitation with other women, except lawful marriage Adultery (Chap. XX)
- c) Defamation (Sec. 499)
- d) Criminal intimidation insult and annoyance (Chapter XXII) and attempts to commit offences. (Sec. 511)

#### **BOOKS RECOMMENDED -**

1. S.M. Mishra - Indian Penal Code - Latest Ed. Universal, Delhi.
2. Ratanlal Dhirajlal - Indian Penal Code - 39th Ed. Student Ed., Wadhwa, Nagpur.
3. Ratanlal Dhirajlal - India Penal Code (Hindi) - Wadhwa, Nagpur 350.00.
4. K.D. Gaur - A Text Book on the India Penal Code (1998), Universal Delhi.

PAPER - IV

Cr. PC JJA & PROBATION OF OFFENDERS' ACT

**UNIT-I INTRODUCTION, CONSTITUTION AND POWERS OF COURTS AND OFFICERS, PROCESSES TO COMPEL, APPEARANCE AND THE PRODUCTION OF THINGS**

- a) Introduction definition and constitution of criminal court and offices. (Sec. 1-25).
- b) Powers of courts and superior officers of police and aid to the magistrate and police (Sec. 26-40).
- c) Power of police to arrest persons, arrest by private person and arrest by magistrate, Right of the arrested person, Right to know the grounds of arrest and Right to be taken to magistrate without delay and may not be detained for more than 24 hours and his other rights. (Sec. 41-60)
- d) Processes to compel appearances of persons and production of things, summon and warrant, How these are served ? The procedure of its execution, Proclamation and attachment, search warrants, seizure and other provisions relating to production of things. (Sec. 91-105)

**UNIT-II SECURITY FOR KEEPING PEACE & MAINTENANCE PREVENTIVE ACTION, INVESTIGATION, INQUIRY & TRIAL & CONDITIONS FOR INITIATION OF PROPERTY**

- a) Security for keeping the peace and good behavior, maintenance of wife and children. (Sec. 106-128)
- b) Maintenance of public order and tranquility, unlawful assemblies, public nuisance, urgent cases of nuisance or apprehended danger. (Sec. 144). Dispute related to immovable property. (Sec. 129-148)
- c) Preventive action of police officers and their power to investigate, FIR and its evidentiary value (Sec. 145-157 of Evidence Act), Recording of confessions (sec. 164), Search and its procedure. (Sec. 149-176)
- d) Jurisdiction of criminal courts in inquiries and trial - Place of inquiry and trial and condition requisite for initiation of proceedings. (Sec. 177-199)

**UNIT-III COMPLAINT, CHARGES, TRIALS BEFORE SESSION & MAGISTRATES, WARRANT AND SUMMONS CASE & SUMMARY TRIALS**

- a) Complaints and commencements of proceedings before magistrate (Sec. 200-210)
- b) The charges - forms and Joinder of charges. Trial before court of session. (Sec. 211-237)
- c) Trials of warrant and summon case before magistrate. (Sec. 238-259).
- d) Summary Trials and attendance of person confined and detained in person. (Sec. 260-271). and accused of unsound mind. (Sec. 328-339).

**UNIT-IV PROVISIONS RELATING TO JUDGEMENT, BAIL, APPEALS, REFERENCE, REVISION AND TRANSFER OR CASES ETC.**

- a) Provisions relating to judgments, its forms and contents. (Sec. 353-371)
- b) Appeals, revision and reference. (Sec. 372-405)
- c) Transfer of cases and Execution, suspension, Remission and commutation of sentences. (Sec. 413-435)
- d) Provision relating to Bail and Bonds. (Sec. 436-450)

**UNIT-V JUVENILE JUSTICE (CARE & PROTECTION OF CHILDREN ACT 2015 & PROBATION OF OFFENDERS ACT 1958.**

- a) Preliminary and Definition of Juvenile etc under JJ(C & P of C) ACT,2015,(Ss 1-2) Juvenile justice board and its procedure,(Ss 4-9). Procedure In Relation to Children in Conflict with Law, (Ss 10-26), Child Welfare Committee, Procedure in relation to children in need of care and protection (Ss 27-38),
- b) Rehabilitation and Social Re-integration,(Ss 39-55), Adoption(Ss 56-73), Other Offences Against Children (Ss 74-88), Appeal and Revision (Ss 101-112).
- c) Probation of offenders' Act 1958 - Meaning and definition of Probation, its nature and history.
- d) Admonition and Exemption from punishment below 21 years of age, Power of probation officer and his duty under the Act. (Sec. 1-19)

**BOOKS RECOMMENDED -**

1. D.D. Basu - Criminal Procedure code 1973, Rs. 400.00.
2. Ratanlal Dhirajlal -Criminal Procedure Code 17th Ed. 2004, Wadhwa, Nagpur.
3. Woodroffe - Commentaries on Code of Criminal Procedure. 2 Vol. 2000, Universal, Delhi.

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## SYLLABUS FOR B.A.LL.B SEMESTER-VI

### PAPER - I

#### LAW OF EVIDENCE

#### UNIT-I INTRODUCTION, INTERPRETATION, CONCEPTIONS AND RELEVANCY (Chapter I & II)

- a) Introduction- Main feature of the Indian Evidence Act. Problem of Applicability of Evidence Act.
- b) Types of Evidence - Oral, Written and Circumstantial evidence, Medical evidence and evidence of relatives. Eye witness, Chance witness and child witness and direct witnesses.
- c) Standard of proof and presumption - May presume, shall presume, conclusive proof, proved, disproved and not proved.
- d) Relevancy of facts - Doctrine of resgestae (Sec. 6, 7, 8, 10). Evidence of common intention (Sec. 10). The problem of relevancy of "otherwise" irrelevant facts (Sec. 11). Relevant facts for proof of custom (Sec. 13) Facts concerning body and mental state. (Sec. 14 & 15)

#### UNIT-II ADMISSION, CONFESSION AND DYING DECLARATION AND STATEMENT MADE UNDER SPECIAL CIRCUMSTANCE (Sec. 17 to 39)

- a) Admission - General principles concerning admission (Sec. 17 to 23)
- b) Confession - Difference between admission and confession, non admissibility of confession caused by inducement, threat and promise and confession made before a police officer. Admissibility of custodial confession and other section relevant to confession. (Sec. 24-31)
- c) Dying Declaration - The justification for relevance on dying declaration. The judicial standard for appreciation of evidentiary value of dying declaration (Sec. 32 & 33)
- d) Statement made under special circumstance and how much of a statement is to be proved. (Sec. 34-39)

#### UNIT-III RELEVANCY OF JUDGEMENT, CHARACTER AND EXPERT TESTIMONY

- a) Relevancy of judgment - General principles, Admissibility of judgment in civil and criminal matter. Fraud and collusion in obtaining judgment (Sec. 40-44).
- b) Expert testimony - General Principles, Who is an expert ? Type of Expert evidence.
- c) Opinion of relationship when relevant - specially proof of marriage and opinion as to the existence of right or custom or usage and tenancy and problem of judicial defence to expert testimony. (Sec. 45-51)
- d) Relevancy of character in civil and criminal cases. (Sec. 52-55)

#### **UNIT-IV ORAL AND DOCUMENTARY EVIDENCE, PRESUMPTION AND EXCLUSION (Chapter IV, V & VI)**

- a) Oral Documents and how it is proved ? requirement for valid and admissible oral documents. (Sec. 59-60)
- b) Documentary Evidence - General Principles, public and private documents, How it is proved ? (Sec. 61-78)
- c) Presumption as to documents of various types and kinds. (Sec. 79-90).
- d) Exclusion of oral by documentary evidence. (Sec. 91-99)

#### **UNIT-V THE BURDEN OF PROOF, ESTOPPEL, WITNESSES, EXAMINATION AND CROSS EXAMINATIONS (Part III)**

- a) The burden of proof - Facts which need not be proved. (Sec. 56-58), General Conception of onus, General and Special presumption and exception as to onus, presumption as to dowry death etc. (Sec. 101-114A)
- b) Estoppel and witnesses - Estoppel by deed and estoppel by conduct, equitable and promissory estoppel. (Sec. 115-117). Various kinds of witness, communication - privileged and confidential Accomplice and information as to the commission of offences. (Sec. 118-134)
- c) Examination of witnesses - General principles of examination, cross and re-examination, Leading questions (Sec. 141-143). Lawful question etc.
- d) Cross examination of witness - General Principles of cross examination, lawful questions in cross examination. (Sec. 141-146), Compulsion to answer questions put to witness.

Hostile witness impeaching of the standing and or credit of witness (Sec. 135-166)

**Books Recommended -**

1. Ratanlal Dhirajlal - Law of Evidence, 21th Ed. 2004, PB, Wadhwa, Nagpur.
2. Sarkar - On Evidence (2 Vol.) 15th ed. 2002, Wadhwa, Nagpur. 2390=00
3. Avatar Singh - Principles of law of Evidence, Universal, Delhi.
4. Vepa P. Sarathi - Law of Evidence EBC, Lucknow.

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PAPER-II

CONSTITUTION LAW-I

CONSTITUTIONAL LAW OF INDIA

- UNIT-I Philosophy of Constitution, Definition and Classification. Main features of Federal and Unitary Constitutions. Nature and Salient features of Indian Constitution, Welfare State, Preamble of the Indian Constitution, Union and its Territory(Art. 1-4), Formation of New States, Citizenship(Art. 5-11).
- UNIT-II State, Fundamental Rights and their position under the Constitution. Right to Equality, Right to Freedom, Right against Exploitation, Right to Freedom of Religion, Cultural and Educational Rights. Right to Constitutional Remedies including Public Interest Litigation(Art.12-35)
- UNIT-III Directive Principles of State Policy, their relevance, Comparison with Fundamental Rights, Classification of Directive Principles of State Policy, Correlation between Fundamental Rights(Art.36-51) Fundamental Duties(Art.51-A).
- UNIT-IV Union Executive- President, Vice President, Council of Ministers, Attorney General, and conduct of Government Business (Art. 52-78). Union Legislature (The Parliament)-Constitution, Composition, Duration of Houses, Qualification of Members and other General Provisions, Officers of the Parliament(Art. 79-104), Powers, Privileges and immunities of the members (Art. 105-106), Legislative Procedure including procedure in financial matters(Art. 107-122), Legislative Powers of the President(Art. 123), Union Judiciary- Supreme Court of India(Art. 124-144), Comptroller General of India(Art.148-151)
- UNIT-V State Executive-Governor, Council of Ministers, Advocate General for the State, Conduct of Government Business(Art. 152-167) State Legislature-Constitution, Composition, Powers, Privileges and immunities of State Legislatures and their Members, Legislative Procedure(Art. 168-212) Legislative Powers of Governor(Art. 213)  
State Judiciary- High Courts in the States and Subordinate Judiciary (Art. 214-237):

**LEADING CASES:**

- (1) Meneka Gandhi Vs. Union of India, AIR 1978 SC 597
- (2) Hussainara Khatoon Vs. Home Secretary State of Bihar AIR 1979 SC 1396
- (3) J.R. Kohilo Vs. State of Tamilnadu, AIR 2007 SC 861

**RECOMMENDED BOOKS:**

- |   |             |                               |
|---|-------------|-------------------------------|
| 1 | V.N. Shukla | Constitution of India         |
| 2 | J.N. Pandey | Constitutional Law of India   |
| 3 | M.P. Jain   | Constitution of India         |
| 4 | D.D. Basu   | Shorter Constitution of India |

  
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| 5 | Kagzi's         | The Constitution of India  |
| 6 | M.D. Chaturvedi | Bharat Ka Savindhan(Hindi) |

### Paper-III

#### CONSTITUTIONAL LAW-II CONSTITUTIONAL LAW OF INDIA


- UNIT-I Administration of Union Territories(Art.239-241), The Panchayats-Definitions, Gram Sabha, Constitution and Composition of Panchayats, Reservation of Seats, Duration, Disqualifications for Membership, Powers, Authority and responsibilities of Panchayats(Art.243-243-O)The Municipalities-Definition, Constitution and Composition of Municipalities and Wards Committees, Reservation of Seats, Duration, Disqualifications for Membership, Powers, Authority and responsibilities of Municipalities, Power to impose Taxes, Finance Commission etc.(Art.243-P-243-ZG)  
The Scheduled and Tribal Areas (Art.244-244-A)
- UNIT-II Relations between Union and the States-Legislative Relations (Art.245-255) Administrative Relations, Disputes Relating to Waters and Co-ordination Between States (Art. 256-263), Provisions Regarding Finance(Art.264-279) Finance Commission(Art.280-281)Miscellaneous Financial Provisions(Art.282-290)Borrowing by the Government of India and the States(Art.292-293), Constitutional Provisions Regarding Property, Contracts, Rights, Liabilities Obligations and Suits(Art.292-300)  
Right to Property (Art.300-A)
- UNIT-III Trade Commerce and Intercourse (Art.301-307) Service under the Union and the States (Art. 308-313) Public Service Commissions (Art.315-323) Administrative Tribunals and Tribunals for other Matters (Art. 323-A-323-B), Provisions regarding Election and Election Commission (Art.324-329), Special Provisions regarding to certain Classes (Art. 330-342)
- UNIT-IV Official Language-Language of the Union, Regional Languages, Language of the Supreme Court and the High Courts etc, Special Directives as to Languages(Art.343-351), Emergency Provisions(Art. 352-360) Miscellaneous Provisions(Art.361-367), Amendment of the Constitution(Art. 368),Temporary, Transitional and Special Provisions(Art.369-392),Short Title, Commencement, Authoritative Text in Hindi and Repeals, All Schedules and Amendments.
- UNIT-V **Leading Cases:**

- (1)- P.L.Dhingra Vs. Union of India, AIR 1958 S.C. 36
- (2)- T.N. Seshan Vs. Union of India (1995) 4 SCC 611
- (3)- Minerva Mills Vs. Union of India AIR 1980 S.C. 1789.

#### **RECOMMENDED BOOKS:**

- |   |             |                             |
|---|-------------|-----------------------------|
| 1 | V.N. Shukla | Constitution of India       |
| 2 | J.N. Pandey | Constitutional Law of India |
| 3 | M.P. Jain   | Constitution of India       |

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|---|-----------------|-------------------------------|
| 4 | D.D.Basu        | Shorter Constitution of India |
| 5 | Kagzi's         | The Constitution of India     |
| 6 | M.D. Chaturvedi | Bharat Ka Savindhan(Hindi)    |

## PAPER – IV

### ENVIRONMENTAL LAWS INCLUDING WILD LIFE PROTECTION AND ANIMAL WELFARE

#### UNIT-I ENVIRONMENT & POLLUTION

- a) What is environment? What is Pollution?
- b) Types of Pollutions - its causes and effect:
- c) AIR, WATER, SOIL, MARINE and NOISE Pollution.
- d) Thermal Pollution and Nuclear Hazardous.
- e) Pollution and Controlling Measure

Water (Prevention and Control of) Pollution Act, 1974

AIR (Prevention and Control of) Pollution Act 1981.

Relevant Provisionms of IPC 1860 i.e. S. 188, 268, 269, 272,

277, 288, 290, 430.

#### UNIT-II ENVIRONMENTAL PROTECTION OF POLLUTION

- a) Pollution Protecting agencies their power and functions.
- b) Means of Protections and Sanctions in various Acts.
- c) Protection of Bio-Diversity.

Legal Control - ECO friendly experimentation on animal  
plant, seed and micro organism, Disposal of Hazardous waste.


- d) Emerging Protection through delegeted legislation.
- e) Environment Protection (Act 1986)

#### UNIT-III INTERNATIONAL CONCERN ON ENVIRONMENT

- a) Global conferences in environment e.g. - Stock Holm (1972)  
Nairobi Decembver 1982.  
& Rio conferences (Prithvi Conferences) (1992) etc.
- b) Ozone depletion. Vienna convention for Protection of the  
Ozone Layer (1985) its causes and effect on Earth, Green  
house effects, wet lands Mangrove etc.
- c) U.N. Declaration on Right to development.

#### UNIT-IV WILD LIFE ANIMALS & ENVIRONMENT

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- a) Wild life, sanctuaries and National Parks.
- b) State Monopoly in the sale of wild life and wild life articles.
- c) Offences against wild life.  
Wild life (Preservation) Act 1959.  
Wild life Protection Act 1972 with amendment.
- d) Forest conservation Act 1980.  
Prevention of cruelty to Animal Act 1960.


#### UNIT-V ENVIRONMENT AND JUDICIARY

- a) Morena Mandal Sahkari shakkar karkhana Society Vs. BIP Board of Prevention of Water Pollution (1993) M.P.L.J. 270.
- b) Suresh Kumar Vs. State of Bihar AIR 1991 SC 420.
- c) M.P. Rice Mills Association Vs. State of M.P. 1999.
- d) Sntosh Kumar Singh Vs. Secretary Ministry of Environment New Delhi 1997(2) M.P.L.J. 602.
- e) M.C. Mehta Vs. U.O.I. (1994) S.C.C. 750.

#### Books Recommended -

1. Trivedi R.K. & P.K. Goel-Introduction to Air Pollution (Techno Science Publication).
2. Jadhav & Bhosle V.M. -Environmental Protection and Laws (Himalaya Publishing House, Delhi)
3. Clark R.S. - Marine Pollution (Cleradon Press Oxford)
4. Cenningham W.P. Cooper, T.H. Gorhani & Hepworth M.T. -  
Environmental Encyclopeadia (Jaico Publishing House, Mumbai - 1196 P.)
5. Rao R.N. & Dutta A.K.- Waste water Treatment (Oxford & IBH) 1987.
6. R.B. Singh & Suresh Mishra- Environmental Law in India (Concept Publishing Co. (New Delhi 1996).
7. Leela Krishnan P. (Ed.) - Law & Environment (EBC Lucknow 1990)
8. Leela Krishnan P.P. - The Environmental Law in India Butterworth India (1999)
9. Nagendra Singh - Environmental Law in India (1986)
10. Suresh Jain - Environemntal Law in India (1986)
11. B.L. Babel - Environmental Protection Law 1997.

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12. Kailash Thakur - Environmental Protection Law & Policy in India (Deep & Deep Publishing Co., New Delhi (1977).
13. R.K. Trivedi - Hand Book of Environemntal laws, Rules Guidelines Compliance and standard Vol. I & II.



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SYLLABUS FOR B.A.LL.B SEMESTER-VII


| S.No               | Papers                                                                 | Max. Marks |
|--------------------|------------------------------------------------------------------------|------------|
| 1                  | Family Law-I Hindu law                                                 | 100        |
| 2                  | Family Law-II Muslim law                                               | 100        |
| 3                  | Administrative Law & Right to Information Act                          | 100        |
| 4                  | Law of Equity and Indian Trust Act,1882                                | 100        |
| 5                  | (Practicals) : Professional Ethics and Professional Accounting System. |            |
| <b>Total Marks</b> |                                                                        | <b>500</b> |

SYLLABUS FOR B.A.LL.B SEMESTER-VIII

| S.No               | Papers                                         | Max. Marks |
|--------------------|------------------------------------------------|------------|
| 1                  | Labour and Industrial Law-I                    | 100        |
| 2                  | Labour and Industrial Law-II                   | 100        |
| 3                  | Human Rights and Public International Law      | 100        |
| 4                  | Insurance Law                                  | 100        |
| 5                  | (Practicals) : Alternative Disputes Resolution | 100        |
| <b>Total Marks</b> |                                                | <b>500</b> |

SYLLABUS FOR B.A.LL.B SEMESTER-VII

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**PAPER - I**  
**HINDU LAW**

**UNIT-I Nature, Origin, Sources, Applicability and General Principles of Inheritance :**

Nature and origin of Hindu law, applicability of Hindu Law sources of Hindu law - Smritis and their commentaries, custom, legislation, judicial decision, equity, justice and good conscience as a source, general principle of inheritance (prior to Hindu succession Act 1956) in mitakshra law and Dayabhaga School and difference between Mitakshara and Dayabhaga succession and the Hindu Marriage Act 1955. (doctrine of representation & spes successionis)

**UNIT-II Schools, Joint Hindu Family, Coparcenary adoption and provisions of Hindu Adoption and Maintenance Act 1956.**

**Schools of Hindu Law** - Mitakshra and Dayabhaga and their sub-schools, difference between the Mitakshra and Dayabhaga school, comparison between them, Migration and the schools of law.

**Joint Hindu Family** - Origin, growth, nature and constitution members of J.H.F. and property of J.H.F.

**Coparcenary** - its nature, distinction between J.H.F. and coparcenary, rights of coparcener, Karta, his powers and duties, alienation of property comparison between Mitakshara and Dayabhaga law. Debts - its liability to pay, nature and duration of liability, doctrine of pious obligation and antecedent debt, Bengal rule of Dayabhaga law, rule of Damdupat.

**Adoption** - Object form and requirement of valid adoption. Persons who may lawfully take in adoption - adoption by widow under authority from his husband, nature and form of authority, general rules as to adoption by widows, and termination of widows power to adopt Persons lawfully capable of giving in adoption & persons who may be lawfully taken in adoption only son, orphan, stranger, adoption by two persons, simultaneous result and effect of adoption, right of adopted son in property Maintenance under Hindu Law and provision of Hindu Adoption and Maintenance, Act 1956, and changes made by this Act.

**UNIT-III Partitions, Stridhan, Women's Estate Gift & Hindu Succession Act 1956**

**Partition** - Meaning of partition, partition and family arrangement, person entitled to partition, property liable to partition, Allotment of share, final shares, reopening of partition and reunion point of

  
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similarity and distinction Mitakshara and Dayabhaga partial partition, its effect.

**Stridhan** : its meaning, kinds, special feature and characteristics. enumeration of stridhana, rights of a women over her stridhan. general rule to succession, common to all school, succession to stridhana, under Mitakshra and Dayabhaga school, maidens property.

**Women's Estate** - its meaning, nature and sources. Incidents of widow's estate, power of alienation, reversion, compromise surrender and setting aside. Unauthorised alienation and effect of Hindu Succession Act 1956.

**Gift** - its definition under T.P. and Hindu law. its subject matter, essential of valid gift, restriction and revocation. 'donatio mortis causa' and gift to trust and Provision of Hindu Succession Act 1956.

#### **UNIT-IV Wills impartible estate, religious and charitable endowments and H.M. Act 1955 & H.M. & G. Act 1956 :**

**Wills**- Its definition, person capable of wills, property as a subject matter of wills, under mitakshara and Dayabhaga law revocation and alteration of wills. Bequest to unborn person when it is void ? Rules against perpetuity, latter of administration and probate.

**Impartible estate** - its definition, origin and nature, rules of succession and seperation of impartible estate.

Religious and charitable endowment- Essential of endowment kinds- idol, math, devasthanam, and Dharemshala. Mahant. Hindu Marriage Act 1955 & Hindu and Minority & Guardian ship Act 1956.

#### **UNIT-V Some codified laws relating to Hindu & Leading Cases**

Special Marriage Act 1954 (Whole Act)

Dowery Prohibition Act 1981 (Whole Act)

Family Courts Act 1984 (Whole Act)

Following Leading cases has been prescribe.

1. Shri Narayanlal V. Shridhar AIR 1996, SC 2371.
2. Jogendar Singh V. Smt. Jogender AIR 1998 SC. 1654.
3. Kisan Lal V. State (2000) ISCC 310.
4. Rameshwari Devi V. State of Bihar AIR 2000 SC 735 (739).
5. Balwant Kaur V. Chaman Singh AIR 2000 SC 1908-12.
6. Digamber Adhar Patel V. Dev Rani Girdhari Patel AIR (1995) SC 1728.

  
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**Books Recommended :**

1. R.K. Agrawal - Hindu Law, C.L.A., Allahabad.
  2. Paras Diwan - Modern Hindu Law (Universal).
  3. S.T. Desai (Ed.) - Mulla Hindu Law (1996), Butterwrith, India.
  4. Paras Diwan - Law of adoption, minority, guardianship and custody (2000) Universal.
  5. Basu N.D. - Law of succession (Universal).
  6. Paras Diwan - Law of intestate and testamentary succession (1998), Universal.
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## PAPER II

### FAMILY LAW II

#### MUSLIM LAW

#### **UNIT-I History, Origin Development Sources and Schools of Muslim Law**

Historical background of Islamic law - its origin and comparison with other personal laws. Who is Muslim ? Prophet and his companion, his tradition, development of muslim law.

Sources of muslim law- Primary sources Quran, Hadis, Ijma, Kyas. secondary sources- custom judicial decision legislation. comparison with sources of Hindu law.

Schools (section and sub-section) of Muslim law - Sunni School - Hanifi, Maliki, Shifai and Humbali, Shia School and their sub-sections, difference between both Shia and Sunni on important matter. Effect of conversion to Islam and Apostasy.

#### **UNIT-II Marriage Dower (Mehr) and Divorce :**

Marriage (Nikah) - Its object and nature, requisite and condition for valid marriage. Effect of incapacity absolute, relative and declaratory, kind of marriage, option of puberty, Restitution of conjugal rights muta marriage, difference between Shia & Sunni law and marriage.

Dower (Mehr)- Definition, nature & classification of dower law of shia sect on dower, confirmation of dower, remission of dower, non-payment of dower effect of apostacy on mehr liabilities of heir for dower, dower as a debt, widows rights in case of non-payment of dower, Kharchi-i-pandan, & Mehr-i-misl.

Divorce (Talaq)- Quranic provisions regarding talaq kind, nature, classification and effect of divorce on the parties, apostacy and conversion as ground of divorce, Iddat utility its rationale and utility divorce through agreement or by mutual consent Khula, Mubarat, Ila & Zihar, Lian; Effect of false charges of adultery. Tolaq-i-Tafwid, Fask (Annulment of marriage by court) provision of dissolution of Muslim marriage Act, 1939. Legal Effect of Divorce. Difference between Shia & Sunni Law on Divorce.

#### **UNIT-III Parentage, Legitimacy & Acknowledgement, Guardianship and Maintenance :**

Parentage - Maternity and paternity. How it is established ? Legitimacy and acknowledgement, acknowledgement as a proof Of legitimacy, prescription of legitimacy condition of valid

acknowledgement and its effects. Position of adoption in Muslim Law ? A comparison between acknowledgement and adoption.

Guardianship (Vilaya) - Concept of guardianship in Islam. Appointment of guardian. Their kinds age of majority, disqualification of guardian, guardianship of property. Power of guardian to dispose of to purchase and to alienate the immovable property of the minor.

Maintenance (Nafaqa)- Introduction, definition and quran decree regarding maintenance. Person entitled to maintenance. Relevant provision of Muslim women (Protection of right on divorce) Act 1986.

#### **UNIT-IV Succession Administration Inheritance and Wills :**

Succession- General rule of succession and exclusion from succession.

Administration - Administration of the estate of a deceased. Provision of Indian succession act 1925.

Inheritance- General rule of Inheritance (sunni & shia) Position of birth right and heritable property. Principle of renunciation and transfer of chance of succession (spes succession) vested inheritance classification of heirs- sharer, residuary and distant kindred. Their share and distribution of property. Doctrine of increase (Aul) Return (Radd) and position of rules relating to (shia & sunni) illegitimate child, missing person, acknowledge kins man, universal legatee & successor by contact eldest son and childless widow.

Wills- Person capable of making wills, its forms, position of heir on wills, limit of testamentary power, abatement and lapse of legacy, subject of legacy, position of unborn person in wills, various kinds of bequest i.e. bequest in future, contingent and conditional alienation, revocation of bequest, its types, position of probate and letter of administration in case of muslim wills.

#### **UNIT-V Marzul Maut Hiba & Waqf and Pre-emption & Leading Cases**

Marzulmaut- Death bed gift, its condition for validity acknowledgement of debt at death-bed. Hiba (gift)- Definition, capacity of making gift extents of donors powers. Gift to unborn person, gift with intent to defraud creditor, position of gifts i.e. - gift of actionable claim and incorporeal property, gift of equity of redemption, gift of property held adversely to donor, requisite for gift and essential of gift (declaration acceptance & delivery of possession), Gift of movable and immovable and corporeal & property and incorporeal property and actionable claim, gift in family and out of family, gift to bailee to two are more donee : Mushaa, conditional & contingent gift, gift in future, revocation of gift, Gift

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with exchange (Hiba-bil-iwaz) Hibh-ba shartul iwaz, sadaqah areeat.

**Waqf-** Definition, object and subject of waqf, condition for valid waqf, doctrine of cy-pres. Form and kind of waqf, waqf how completed ? Revocation of waqf, contingent waqf, waqf aald aulad, alienation of waqf property, muttawalli- his appointment power and function & renuwal and provision of waqf act 1995, Khanqah, imambera, sajjadanashir kazi, takiya.

**Pre-amption-** its nature and kind, who may claim it, its requisite and condition.

**Leading Cases :**

1. Kapoor Chand v. Kedarunnisa (AIR 1953 S.C.413)
2. Janjira Khatoon v. Mohd. Fakrulla (AIR 1922 Cal 429)
3. Habibur Rahman v. Atafali (AIR 1922 PC 159)
4. Maina Bibi v. Chawdhari Vakil Ahme... 673 (PC) (AIR 1925 PC 63)
5. Ms. Jordan Diegdeh vs. S.S. Chopra (AIR 1985 SC 935)

**Recommended Books :**

1. Syed Khalid Rashid - Muslim law - EBC Lucknow (Hindi English)
2. A.A.A. Fyzee - Outline of Muhammada law (1998)
3. A.M. Bhattacharya - Muslim law and the constitution
4. Aquil Ahmed - Muslim law - CLA Allahabad (Hindi)
5. S.K. Awasthi - The waqf act 1995 (Hindi/English) India law House 22, Sikh Mohalla, Indore
6. Mulla's - Principles of Mohammedan law, Tripathi
7. Scatcht - Mohd. Jurisprudence.
8. Caulson - Principles of Mohd. mheritance.

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## PAPER - III

### ADMINISTRATIVE LAW

#### UNIT-I Introduction of administrative law, administrative process, discretion and direction :

Meaning, nature, history and function of administrative law, sources of administrative law, its origin and scope, reasons for its growth, its historical development in England, America and India, administrative law and constitutional law, droit administrative ... and council, D. Etate, constitutional foundation of administrative law, the rule of law, its meaning, supremacy of regular laws and equity before the laws, doctrine of separation of powers, its meaning and its position in U.K., U.S.A. & India.

**Administrative Process** - Nature of administrative process, and its classification, legislative, judicial, quasi-judicial and pure executive action, their characteristics and difference among them.

**Administrative Discretion** - Meaning, nature and criteria, its use or principle applicable for its use, need for administrative discretion, limit on exercise of discretion, malafide exercise of discretion acting under dictation, constitutional imperative... and use of discretionary authority, non-application of mind, unreasonableness and standard of reasonableness, taking irrelevant consideration or not taking in to consideration among relevant matter, non exercise of discretionary powers, administrative arbitrariness and bias. Procedural safe guards for use of discretion.

**Administrative Direction** - its use and classification, its unenforceability.

#### UNIT-II Delegated legislation, Administrative adjudication & Tribunal

Delegated legislation, its historical background and function, reasons for its growth, need for delegation of administrative power, kinds of delegated legislation, sub-delegated legislation and conditional legislation, constitutionality of delegated legislation in Britain and India, Re Delhi Laws Act, Power of exclusion and inclusion and power to modify statutes, essential legislative functions, requirement for the validity of delegated legislation.

**Judicial control of delegated legislation** - Doctrine of ultravires, its kinds, substantive and procedural grounds for its applicability, consultation, sub delegation, publication, administrative directions, circular legislative or parliamentary control on delegated legislation, laying procedure, policy statement, committees on delegated legislation and hearing before it, sub delegation & powers, guide-lines for it, and control of sub delegation, administrative adjudication and tribunals, reasons for proliferation of administrative tribunals, functional approach characteristics and

feature of administrative tribunals, Basic difference between a court and a tribunals, position of tribunals in India, CAT its purpose, establishment and composition, jurisdiction power and authorities, aspect of tribunal practice and administrative procedure, procedure before the enquiry or hearing, procedure at the tribunal hearing and procedure after tribunal hearing, frank committee report, administrative tribunal act 1985, administrative tribunals and appeal judicial review and finality of the tribunal decision, reopening of tribunal proceeding rule of resjudicate, Administrative tribunals in India.

### **UNIT-III Judicial Control of Administrative Action and Natural Justice**

Power of the High Court, writ jurisdiction of High Court under arical 226, limitation of jurisdiction, territorial limit, general limitations, Locus standi, non-existance of alternative remedies lashes, acquiescence, doctrine of legitimate expectation, doctrine of public accountability, doctrine of proportionality, grounds and condition for writs and orders, mandamus, certiorary prohibition, Quo warrants, Habeous corpus, nature of relief practice and procedure, power of supreme court under Art 32, role of natural justice on administrative law - principals of natrual justice, (1) No man shall be a judge in his own cause or if he has any bias (Pecunary personal & official) against a party or any interest in subject matter of the enquiry (2) andi Alterm Partem - "Hear the other side and limit of audi altarum partem (3) The party must be known the reasons for the decisions, the use of principle of natural justice in deciplinary process and exclusion & violation of principles of natural justice and its effect.

### **UNIT-IV State Liability for Wrongs Act & Commission of Inquiry & Corporate:**

Liabilities for torts, distinction between sovereign and commercial functions, contitutional provisions in this regard, act of state and statutory immunities contractual liability of Govt., Government privilege in legal proceeding state secrets, public interest, transperancy and right to information estoppec and waiver.

Remedies against administratative acts, constitutional remedies writ injunctions, its nature and types, distinction between injunction and mandamus, suit for declaration, its condition and nature, suits for damages.

Public enquiry and commission of enquiry, general enquiry under service rules, procedure in disciplinary action and Provisions of commission of enquiry act 1952, and

**Corporation** : Corporations, its kinds and characteristics, its classification, legal and constitutional provisions & their responsibilities in contract and in tort, position of their employee

whether they are civil servants ? control on corporation, legislative control, judicial control, governmental control and public controls.

**UNIT-V-Ombudsman,Vigilancecommission&RighttoInformationAct**

Ombudsman, its development in Newzealand, Britain and Australia. Position of Ombudsman in India, Lokpal and Lokayukt and their position, Public Interest litigations its nature and importance in Democracy. Central vigilance commissions its powers and functions

**Right to Information Act,2005**-Introduction, Right to Information and Voluntary Organization, Right to Information in the Foreign Countries, Request for Right to Information, Constitution, Rights and Obligations of the Information Agencies, Procedure of Disposal of Applications and Complaints by State Commissions with special reference to Section 18, 19 and 20 of Right to Information Act 2005.

**: leading cases**

1. A.K. Karipak v. Union of India (AIR 1970 SC 150)
2. Bharat Bank Ltd. v. Employees of Bharat Bank (AIR 1970, SC188)
3. Registrar Co-operative societies v. Kunjabamu and other (AIR 1980, SC350)
4. Hira Nath Mishra v. Principal, Rajendra Medical College, Rachi (AIR 1973 SC1260)
5. Bhagat Raja, Union of India (AIR 1967 SC1606)
6. Kasturilal Ralia Ram v. State of U.P. (AIR 1965 SC1039)

**Books Recommended :**

1. Jain and Jain - Principles of Administrative law, Tripathi (1986).
2. Wade - Administrative law (Indian Rep.) Universal Delhi.
3. J.C. Garner - Administrative law, Butherworth (1990)
4. D.D. Basu - Comparative Administrative law (Prentice Hall).
5. I.P. Massey - Administrative law EBC, Lucknow. (1996).
6. M.P. Jain - Cases and material on Indian Administrative law (Vol I & II) 1998  
Universal book traders Delhi.
7. S.P. Sathe - Administrative law (1998), butterworth (India), Delhi.
8. De Smith - Judicial review of Administrative Action (1995) with supplement, Sweet & Maxwell.
9. M.A. Fazal - Judicial control of administrative action in India Pakistan & Bangladesh (2000), Butterworth India.

10. Indian law institute - Cases and material on Administrative law in India vol. I (1996), Delhi.
  11. D.R. Saxena - Ombudsman, Deep & Deep Delhi.
  12. Tusharkanti Saha - Administrative law - Kanishk Publication, New Delhi.
  13. V.G. Ramchandran - Administrative law, Eastern Book Co., Lucknow.
  14. Foulkes - Introduction to Administrative law, Butterworth.
  15. Bhagwati Prasad Banerjee - Writ Remedies (1999) Wadhwa, Nagpur.
  16. M.P. Jain - The evolving Indian Administrative law (1983) Tripathi, Bombay.
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Paper- IV

LAW OF EQUITY AND INDIAN TRUST ACT, 1882

PART-A

**EQUITY**

- UNIT-I Historical Introduction- Concept of Equity, Principles of Equity, Nature and Scope of Equity, Equity under the Roman, English and Indian Legal System. Origin and Growth of Equity in England-Origin of Equitable Jurisdiction. Procedure in Equity.
- UNIT-II Division of Equity Jurisdiction-Exclusive, Concurrent and Auxiliary Jurisdiction Equity and the Common Law- Distinctive Features of Equity and Common Law. Relation of Equity with Common Law, Fusion of the Administration of Equity and Common Law, The Judicature Act, 1873-1875, Object and Effect of the Judicature Act
- UNIT-III Maxims of Equity.  
Nature of Equitable Rights and Interest. Classification of Equitable Rights, Penalties and Forfeitures, Mortgages, Liens and Charges, Married Women, Guardians, Infants, Idiots and Lunatics, Conversion and Re-conversion, Election, Performance Satisfaction and Ademption, Administration of Assets, Mistake, Misrepresentation, Fraud and Undue Influence, Accident, Set-off, Equitable Assignments and Equitable Estoppels.

PART-B

UNIT-IV **INDIAN TRUST ACT, 1882**

Historical Background- Importance of Trust. Origin and Development of Trust under Roman Law, English Law and Indian Law.  
Definition of Trust and Comparison with other Analogous Relations, Kinds of Trusts, Public or Charitable Trust, Doctrine of Cypres. Creation of Trust, The Appointment and Discharge of Trustees, The Duties and Liabilities of Trustees, The Rights and Powers of Trustees, Disabilities of Trustees, Rights and Liabilities of Beneficiaries, Vacating the Office of Trustee, Extinction of Trust, Certain Obligation in the Nature of Trust.


UNIT-V **LEADING CASES:**

- 1- Deoki Nandan Vs. Murlidhar and Others AIR 1957 S.C. 133.
- 2- Jankiram Ayyar Vs. Neelkanth Ayyar, AIR 1962 S.C. 536.
- 3- Shyamlal Yadu Rao Bhau Vs. Yesha Ram Lodku Pavan AIR 1954 Nag. 334
- 4- Satyanarayan Vs. G. Velloji Rao AIR 1965 S.C. 1465

**RECOMMENDED BOOKS:**

- |    |                   |                                                                |
|----|-------------------|----------------------------------------------------------------|
| 1- | Snell             | Principles of Equity                                           |
| 2- | S.T.Desai         | Indian Trust Act                                               |
| 3- | G.P. Singh        | Equity, Trust and Specific Relief                              |
| 4- | Aqil Ahmed        | Equity, Trust with Fiduciary Relations and Specific Relief Act |
| 5- | Basanti Lal Babel | Equity, Trust and Specific Relief Act(In Hindi)                |

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Paper-V

**PROFESSIONAL ETHICS AND PROFESSIONAL ACCOUNTING SYSTEM**

**(PRACTICALS)**

**OUTLINE OF THE COURSE:** Professional Ethics, Accountancy for Lawyers and Bar-Bench Relations

This Course will be taught in association with practicing lawyers on the basis of following materials.


- (i) Mr. Krishnamurthy Iyer's book on "Advocacy"
- (ii) The Contempt Law and Practice
- (iii) The Bar Council Code of Ethics
- (iv) 50 selected opinion of the Disciplinary Committees of Bar Councils and 10 major judgments of the Supreme Court on the subject
- (v) Other reading materials as may be prescribed by the University

**SCHEME OF EXAMINATION**

|     |                                               |    |
|-----|-----------------------------------------------|----|
| (1) | Written Examination                           | 50 |
| (2) | Seminar two (each of 10 marks)                | 20 |
| (3) | Project Report (on any topic of the material) | 20 |
| (4) | Viva-Voce                                     | 10 |

The written examination shall be conducted from the prescribed course. The seminar shall also be conducted from the important topics of the materials. The presentation of Project Report and appearance in seminar and viva-voce examination is compulsory. The candidate who does not appear in seminar and viva-voce examination or who does not prepare Project Report will be declared fail in this paper. Viva-Voce Shall be Conducted by the external examiner appointment by University.

The Practical work/Project Report shall be submitted by the students in own handwriting in the College. The evaluation shall be made by the college on the basis of participation

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and record. The college after valuation shall be sent the diaries and marks to the University. The Principal may himself evaluate and allot marks on the record or may authorize any senior member(s) of the staff, for this purpose. In the later case The Principal shall countersign on the awarded marks.

**DETAILED COURSE CONTENT OF WRITTEN EXAMINATION (50 marks):**

**UNIT-I GENESIS NATURE AND EVOLUTION OF INDIAN BAR**

- a) Evolution of Indian Bar - Regulating Act 1773. Bengal Regulation of 1793. and The Legal Practitioners Act 1846.
- b) The Legal Practitioners Act 1853 and the legal practitioners Act 1879.
- c) The Bar Councils Act 1926 and The Report of the All India Bar Committee 1953.
- d) History and circumstances before the passing of the Advocate Act 1961.

**UNIT-II SOURCES & SANCTIONS OF PROFESSIONAL ETHICS & MISCONDUCTS**

- a) Sources of Rules of Professional Ethics - Judicial and extra Judicial sanctions and advantages of study of professional ethics.
- b) Lawyers misconduct - Professional and others.
- c) Equipment of Advocate Reverence for the law learning public service, brotherhood organization. Love for professional ideals.
- d) Independence and integrity of The Bench and the Bar.


**UNIT-III PRIVILEGES RIGHTS POWERS AND DISABILITIES OF LEGAL PRACTITIONERS**

- a) Right and duties of Advocates
- b) Privileges of Advocate
- c) Powers of Legal practitioners
- d) Disabilities of legal practitioners

**UNIT-IV ADVOCATES AND THEIR RELATION WITH OTHERS IN THE LIGHT OF B.C.I. RULES 1976**

- a) Advocate and the Court.

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- b) Advocates relation with his opponent and with his client.
- c) Advocates relation with his colleagues and witnesses
- d) Advocates and the public and other employment and Advocates

**UNIT-V ADVOCATE ACT, CODE OF ETHICS AND CONTEMPT OF COURT**

- a) Indian Advocates Act, 1961.
- b) The contempt law & practice - Indian contempt of court Act 1976.
- c) Other statutory provisions relating to contempt in IPC, Cr.P.C and CPC.
- d) Supreme Court on professional misconduct - Important cases.

**BOOK RECOMMENDED**

1. C.L. Anand - Professional Ethics of the Bar (Law Book Co., S.P. Marg Allahabad).
2. V.G. Ramchandran's - Contempt of Court EBC, Lucknow.
3. The Bar Council Code of Ethics and Indian Advocate Act 1961.
4. Indian Contempt of Court Act 1996.
5. M. Krishnamurthy - Advocacy
6. AVROM Sherr - Advocacy, Universal Book Traders, 80, Gokhale Market, Delhi.

## SYLLABUS FOR B.A.LL.B SEMESTER-VIII

### Paper-I

#### LABOUR AND INDUSTRIAL LAWS-I

##### This Paper includes Following Statutes

- (1) The Industrial Disputes Act, 1947
- (2) The Trade Unions Act, 1926
- (3) The Workmen's Compensation Act, 1923
- (4) The Payment of Wages Act, 1936
- (5) The Minimum Wages Act, 1948

##### Detail Course Contents

- UNIT-I **General Introduction**-Industrial Jurisprudence, Labour Policy in India, Industrial Revolution of India, Evil of Industrialization, Labour Problems, Principles of Labour Legislation, Growth of Labour Legislation in India, Classification of Labour and Industrial Legislations.
- UNIT-II **The Industrial Disputes Act, 1947**—Preliminary. (Sec. 1-2), Authorities under this Act (Sec. 3-9), Notice of change (Sec. 9A -9 B), Reference Of Certain Individual Disputes To Grievance Settlement Authorities (Sec. 9C ), Reference of Disputes to Boards, Courts or Tribunals (Sec. 10- 10A), Procedure, Power and Duties of Authorities (Sec. 11-21), Strikes and Lockouts (Sec. 22-25), Lay-Off and Retrenchment (Sec. 25A-25J ), Unfair Labour Practice (Sec. 25T-25U ), Penalties (Sec. 26-31).
- UNIT-III **The Trade Unions Act, 1926**-- Preliminary.(Sec. 1-2), Registration of Trade Unions (Sec. 3-14), Rights and Liabilities of Registered Trade Unions (Sec. 15-28), Regulations (Sec. 29-30), Penalties and Procedure (Sec. 31-33).
- The Workmen's Compensation Act, 1923**-- Preliminary. (Sec. 1-2), Workmen's Compensation (Sec. 3-18), Commissioners – Reference to Commissioners, Appointment and Powers of Commissioners, Powers and Procedure of Commissioners, Appeals (Sec. 19-21), Rules 32-36, All Schedules, All Schedules and amendments made from time to time.
- UNIT-IV **The Payment of Wages Act, 1936**-- Preliminary. (Sec. 1-2), Responsibility for Payment of Wages (Sec. 3-6), Deductions which may be made from wages (Sec. 7-13), Authorities under the Act, Inspectors.

Facilities to be afforded to Inspectors, Authorities to hear claims, Single application in respect of claims from unpaid group, Appeal (Sec. 14-17), Power of authorities appointed under section 15 (Sec. 18-19 ), Miscellaneous Provisions (Sec. 20-26).

**UNIT-V The Minimum Wages Act, 1948--** Preliminary, (Sec. 1-2), Fixing of minimum rates of wages (Sec. 3-6 ), Advisory Board (Sec. 7-9 ), Wages in kind (Sec. 10-17 ), Maintenance of Registers and Records, etc. (Sec. 18-21 ), Penalties, etc. (Sec. 22-26 ), Power of Govt. to make rules (Sec. 27-31 ), All Schedules and all amendments made from time to time

**LEADING CASES:**

1. A Maikenji Vs. J.S. Ishaq AIR 1970 SC 1906
2. Bangalore Water Supply and Sewerage Board Vs. A. Rajappa and Others AIR 1978 SC 553
3. Pottery Majdoor Panchayat Vs. The Perfect Pottery Co. Ltd. A.I.R. 1979, S.C. 1356.

**Books Recommended:**

1. H.K. Sharey - Industrial & labour laws in India (Prencitce-Hall) New Delhi.
2. I.A. Sayieed - Labour laws, Himalayan Publishing Co. Nagpur
3. Reshma Arora - Labour law, Himalayan Publishing Co. Nagpur
4. S.K. Mishra - Labour and Industrial law - Allahabad law agency H.N. 387, Sector 16-A Faridabad.
5. Taxmann - Labour laws - Bare Act (Taxmann allied series, Allahabad)
6. S.C. Shrivastava - Treatise on social security and labour laws EBC Lucknow.
7. S.N. Mishra - Labour & Industrial laws CLA Allahabad.
- 8 P.L. Malik - Hand Book of Labour and Industrial laws, EBC Lucknow.
9. Seth D.D. - Commentaries on Industrial Act (Law publishing house - Allahabad)
10. K.D. Shrivastava - Commentary of payment of wages act (1998) EBC Lucknow.
11. O.P. Malhotra - The law of Industrial Disputes (1998) Universal Delhi.
12. V.G. Goswami - Labour and Industrial laws, CLA Allahabad.
13. P.K. Padhi -Labour and Industrial Laws, Prentice Hall of India Pvt. Ltd. New Delhi.

**Paper-II**  
**LABOUR AND INDUSTRIAL LAWS-II**

**This Paper includes following Statutes:**

- (1) The Employees' State Insurance Act, 1948
- (2) The Factories Act, 1948
- (3) The Child Labour(Prohibition and Regulation) Act, 1
- (4) The Maternity Benefits Act, 1961
- (5) The Gratuity Act, 1972


**Detail Course contents:**

- UNIT-I The Employees' State Insurance Act, 1948**—Preliminary (Definitions) (Sec. 1-2), Corporation, Standing Committee and Medical Benefit Council (Sec. 3-25 ), Finance and Audit (Sec. 26-37 ), Contributions (Sec. 38-45 ), Benefits (Sec. 46-59 ), Adjudication of Disputes and Claims (Sec. 74-83 ), Penalties (Sec. 84-86 ).
- UNIT-II The Factories Act, 1948**-- Preliminary (Definitions) (Sec. 1-7), Inspecting Staff (Sec. 8-10 ), Health (Sec. 11-20 ), Safety (Sec. 21-41 ), Welfare (Sec. 42-50 ), Working hours of Adults (Sec. 51-66 ), Employment of Young persons (Sec. 67-77 ), Annual leave with wages (Sec. 78-84 ).
- UNIT-III The Child Labour(Prohibition and Regulation) Act, 1986**- Preliminary (Definitions) (Sec. 1-2 ), Prohibition of Employment of Children in certain occupations and processes (Sec. 3-5 ), Regulation of conditions of work of children (Sec. 3-5 ), Miscellaneous (Sec. 14-26 ).Causes of child labour and Present prospect of child labour in India.
- UNIT-IV The Maternity Benefits Act, 1961**-- Preliminary (Definitions) (Sec. 1-3 ), Employment of, or work by woman prohibited during certain period , Right to payment of maternity benefit, Notice of claim for maternity benefit and payment thereof, Payment of maternity benefit in case of death of a woman, Payment of medical bonus, Leave for miscarriage, Other leaves, Nursing breaks, Dismissal during absence of pregnancy, Deduction of wages, Appointment of Inspectors, Powers and duties of Inspectors (Sec. 4-22 ), Cognizance of Offence (Sec. 23 ).
- UNIT-V The Gratuity Act, 1972**-- Preliminary (Definitions) (Sec. 1-2), Controlling Authority, Payment of Gratuity, Nomination (Sec. 3-6 ), Determination of the amount of gratuity (Sec. 7 ), Inspector , Recovery of gratuity, Penalties (Sec. 8-9), Cognizance of Offences (Sec. 11-14 ), Power to make rule (Sec. 15 )

**LEADING CASES:.**

- (!) B.Shah Vs. Labour Court AIR 1978 SC 12

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- (2) Ahemdabad Private Primary Education Association Vs. Administrative Officers (2004) I SCC 755
- (3) Peoples Union for Democratic Rights Vs. Union of India AIR 1982 SC 1480

**Books Recommended:**

1. H.K. Sharey - Industrial & labour laws in India (Prencitce-Hall) New Delhi.
2. I.A. Sayieed - Labour laws, Himalyan Publishing Co. Nagpur
3. Reshma Arora - Labour law, Himalyan Publishing Co. Nagpur
4. S.K. Mishra - Labour and Industrial law - Allahabad law agency H.N. 387, Sector 16-A Faridabad.
5. Taxmann - Labour laws - Bare Act (Taxmann allied series. Allahabad)
6. S.C. Shrivastava - Treatise on social security and labour laws EBC Lucknow.
7. S.N. Mishra - Labour & Industrial laws CLA Allahabad.
- 8 P.L. Malik - Hand Book of Labour and Industrial laws, EBC Lucknow.
  
9. Seth D.D. - Commentaries on Industrial Act (Law publishing house - Allahabad)
10. K.D. Shrivastava - Commentary of payment of wages act (1998) EBC Lucknow.
11. O.P. Malhotra - The law of Industrial Disputes (1998) Universal Delhi.
12. V.G. Goswami - Labour and Industrial laws, CLA Allahabad.
13. P.K. Padhi -Labour and Industrial Laws, Prentice Hall of India Pvt. Ltd. New Delhi.



**PAPER - III**

**HUMAN RIGHTS AND PUBLIC INTERNATIONAL LAW**

**UNIT-I HUMAN RIGHTS IN GENERAL**

- a) Human Rights its meaning and Nature.
- b) Its definitions and classification.
- c) Human Rights as a Right in juristic Sense.
- d) Its existence in religions.

**UNIT-II HUMAN RIGHTS IN INTERNATIONAL PERSPECTIVE :**

- a) Human Rights its development and emerging trend in Universal sphere & Role of NGO's & specialised agencies in its protections.
- b) International Bill of Rights and Universal Declaration of Human Rights 1948.
- c) The conventions on the Rights of Child and The conventions on the elimination of discrimination against woman.
- d) International convention on Economic Social & Cultural Rights 1966.

**UNIT-III HUMAN RIGHTS IN REGIONAL & NATIONAL PERSPECTIVE**

- a) Constitutional Protection of Human Rights in India.
- b) Protection of Human Rights Act 1993.
- c) Human Rights Protection frame work of India - National Human Rights commission its constitutional powers and duties.
- d) The conventions on the elimination of all forms of Racial discrimination and struggle against Apartheid.

**UNIT-IV PUBLIC INTERNATIONAL LAW & STATE**

- a) Public International Law its definition, Nature, Sources, History and development.
- b) Relationship between international and Municipal law and difference between Public International law and Law of conflicts subjects of PIL.
- c) State - its nature, evolution, and criteria of statehood, its recognition, succession and responsibility.
- d) Nationality, Extradition Asylum and principle of self determination.

## UNIT-V INTERNATIONAL LAW AND USE OF FORCE

- a) Law of War and peace, Intervention and Neutrality, Treaty Covenant, immunities.
- b) Law of the Sea - Territorial water, continental shelf, sea bed, ocean-floor, Economic zone, Blockade, contiguous zone.
- c) Settlement of International dispute by use of force, by peaceful means. Role of UNO and their specialised agencies.

### Recommended Reading Material :

1. J.K. Starke - An Introduction to the International Law.
2. J. L. Brierley - The Law of Nations (Oxford)
3. A.K. Pillai - National Human Rights Commission.
4. S.K. Verma - An Introduction to Public International Law (Prentice-Hall India).
5. All the Covenants and Conventions.
6. Shaw M.N. - International law (CUP).
7. M.C. Nair - The Law of Treaties (Oxford)
8. Paras Diwan & Piyushi Diwan - Human Rights & The Law - Universal & Indian.
9. S.K.Kappor - Human Rights under International Law and Indian Law Central Law Agency Allahabad.
10. D.D.Basu - Human Rights in Constitutional Law (Prentice - Hall)

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**PAPER-IV**  
**INSURANCE LAW**

**UNIT-I INTROCUCTION, NATURE, HISTORY AND DEVELOPMENT**

- a) Definition and nature of Insurance. Difference between Assurance and Insurance.
- b) Concept of Insurance and Law of contract and Law of torts.
- c) History and Development and importance of Insurance, contract of insurance and its characteristics.
- d) Provision of Insurance Act 1938.

**UNIT-II GENERAL PRINCIPLES OF INSURANCE**

- a) Various principles of Insurance - Principles of co-operative probability and legal principles. Principles of good faith and non-disclosure. Misrepresentation in insurance contract. Principles of contribution and principles of proximate.
- b) Principles of insurable interest - The risks, classification of risks, Provision of warranty & Principles of warranty and subjugation.
- c) Nature, kind and classification of insurance contract.
- d) The policy - classification of policies, its forms and contents, its commencement, duration, calculation of premium, cancellation, alteration, reduction, rectifications, construction and assignment of subject matter.

**UNIT-III LIFE INSURANCE AND MARINE INSURANCE**

- a) Nature, scope and definition, condition for life insurance contract. The policy and formation of life insurance contract, circumstances affecting the risk. Amount recoverable under the policy and person entitled to payment, settlement of claim and payment of money. Distinction between nomination and assignment and double insurance and reinsurance. Life Insurance Corporation Act 1956.
- b) Marine insurance - Meaning, Scope and History. Essential elements of marine insurance contract, classification, procedure and conditions of marine insurance and provisions of Indian Marine Insurance Act 1963.
- c) Tax benefit from life insurance and Life Insurance (Emergency provisions) Act 1956.

- d) Provision of the General Insurance Business (Nationalization) Act 1972.

#### UNIT-IV INSURANCE AGAINST THIRD PARTY RISKS

- a) Insurance against third party risks, Motor vehicle Act 1988 (Chapter XIII)
- b) Motion, scope, definition, statutory, contract between Insurer and Driver, Rights of third party, Limitation on third party rights, Duty to inform third party.
- c) Effect of insolvency or death on claim certificate of insurance or conditions to be satisfied.
- d) Claim tribunals' constitutions, functions, application for compensation, Who can apply ? Procedure and powers of claim tribunals and its awards.

#### UNIT-V MISCELLANEOUS INSURANCES AND PRESENT POSITION IN THE LIGHT OF GLOBALIZATION

- a) Miscellaneous insurance, including fire insurance.
- b) Provisions of public liability Act 1991 Except Schedule.
- c) Insurance in Global perspective and in present scenario.
- d) Provisions of Insurance Regulating and Development Authority Act 1999.

#### BOOK RECOMMENDED :

1. Ivamy - General Principles of Insurance Law (1993) Butterworth
2. M.N. Shrinivasan - Principles of Insurance Law (1997), Ramaniya Publisher, Bangalore.
3. John Birds - Modern Insurance Law (1988), Sweet & Maxwell.
4. Brij Anand Singh - New Insurance Law (2000) Union Book Publisher, Allahabad.
5. M.N. Mishra - Law of Insurance, Central Law Agency, Allahabad

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**PAPER- V**  
**ALTERNATIVE DISPUTES RESOLUTION**  
**(PRACTICALS)**

Outline of the Course :

- (i) Negotiation skills to be learned with simulated program.
- (ii) Conciliation skills.
- (iii) Arbitration Law and Practice including International arbitration and Arbitration rules.

The course is required to be conducted by senior legal practitioners through simulation and case studies. Evaluation may also be conducted in practical exercises at least for a significant part of evaluation.


**SCHEME OF EXAMINATION**

|     |                                               |    |
|-----|-----------------------------------------------|----|
| (1) | Written Examination                           | 50 |
| (2) | Seminar two (each of 10 marks)                | 20 |
| (3) | Project Report (on any topic of the material) | 20 |
| (4) | Viva-Voce                                     | 10 |

The written examination shall be conducted from the prescribed course. The seminar shall also be conducted from the important topics of the materials. The presentation of Project Report and appearance in seminar and viva-voce examination is compulsory. The candidate who does not appear in seminar and viva-voce examination or who does not prepare Project Report will be declared fail in this paper. Viva-Voce Shall be Conducted by the external examiner appointment by University.

The Practical work/Project Report shall be submitted by the students in own handwriting in the College. The evaluation shall be made by the college on the basis of participation and record. The college after valuation shall be sent the diaries and marks to the University. The Principal may himself evaluate and allot marks on the record or may

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authorize any senior member(s) of the staff, for this purpose. In the later case The Principal shall countersign on the awarded marks.

DETAILED COURSE CONTENT OF WRITTEN EXAMINATION ( 50 marks):

- UNIT-I Arbitration : meaning scope and types, Arbitration Agreement- essentials ,  
nds , Who can enter into arbitration agreement? Validity, Reference to  
arbitration, Interim measures by Court  
UNIT-II Arbitral Tribunal, Appointment, Jurisdiction of arbitral tribunal, Grounds  
of challenge, Powers, Procedure, Court assistance, Award, Rules of guidance, Form  
and content, Correction and interpretation, Grounds of setting aside an award--Want  
of proper notice and hearing , Contravention of composition and procedure.  
Impartiality of the arbitrator, Bar of limitations, Res judicata, Consent of parties,  
Enforcement.  
UNIT-III Appeal and Revision, Enforcement of foreign awards, New York  
Convention Award, Geneva Convention Awards.  
UNIT-IV Conciliation: Distinction between "conciliation", "negotiation",  
"mediation" and "arbitration", Appointment of conciliator, Interaction between  
conciliator and parties, Communication, disclosure and confidentiality, Suggestions  
by parties, Resort to judicial proceedings, legal effect, Costs and deposit repeal.  
UNIT-V Rule making power: Legal Services Authorities Act, Lok Adalat, Legal  
Camp.

BOOKS RECOMMENDED:

1. Avtar Singh : Arbitration and Conciliation.
2. Goyal : Arbitration and Conciliation Act.
3. Shukla : Legal remedies.
4. Jhabvala : Law of Arbitration and Conciliation.
5. Dr. N.V.Paranjape: Arbitration and Alternative Dispute Resolution.

# SYLLABUS FOR B.A.LL.B SEMESTER-IX

## PAPER - I

### LAND LAWS INCLUDING OTHER LOCAL LAWS

1. The Chhattisgarh Land Revenue Code 1959 (Amended 2006)
2. The C.G. Ceilings on Agricultural Holding Act, 1960 (as Amended 2006)

**UNIT-I** C.G. LAND REVENUE CODE - Historical Development, Definitions, Abadi, Agriculture, Agriculture Year, Bonafide Agriculturist, Board, Co-operative Society, Government, Forest, Government Lessee, Holding, Improvement, Land, Landless Person, Land Records, Legal Practitioner, Mango Grove, Orchard, Recognised Agent, Rent, Revision, Revenue Officer, Revenue Year, Sub-Division of Survey Number, Tenant, Tennure Holder, Timber Tree, Urban Area, Unoccupied Land, Village, To Cultivate Personally, Survey Number.

**UNIT-II** Board of Revenue, Revenue Officers and their Classes and Powers, Procedure of Revenue Courts, Appeal Revision and Review, Land and Land Revenue, Revenue Survey and Settlement in Non-Urban Areas, Assessment and Re-assessment of Land Revenue in Urban Areas.


**UNIT-III** Land Records, Boundaries And Boundary Marks and Survey Marks, Tenure Holders, Government Lessee and Service Land, Occupancy Tenents, Alluvian and Diluvian, Consolidation of Holding, Village-Officers, Rights in Abadi and Unoccupied Land and its Produce.

**UNIT-IV** C.G. on Agricultural Holding Act, 1960 : Definitions, Exemptions and Restrictions on Transfer of Land, Fixing of Ceiling Area, Determination of Surplus Land and Acquisition Thereof, Payment of Compensation in Cumbrances on Surplus Land, Offences and Penalties and Miscellaneous.

**UNIT-V** **Leading Cases**

1. State of M.P. Vs. Poonam Chand, 1968, J.L.J. 116.
2. M.P. State Vs. Babulal And others, 1980, J.L.J. 856 (SC).
3. Harprasad. B Horelal Vs. Board of Revenue, 1964, M.P.L.J. 370.
4. Nandu Vs. Babu and others, 1965, M.P.L.J. 178.
5. Manmohan Lal Shukla Vs. Board of Revenue, 1964, M.P.L.J. 32.

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**Books Recommended :**

1. M.P. Land Revenue Code - H.N. Dwivedi.
2. M.P. Land Revenue Code - R.D. Jain.



# INTELLECTUAL PROPERTY LAW

## PAPER-II

### UNIT-I Introduction Nature Basic Concepts and International Conventions

Nature and meaning of Intellectual property, need for protection of right of intellectual property. The types of intellectual property. The types of intellectual property and enhancement of area of I.P. History and introduction to the leading international instrument concerning intellectual property rights i.e. WIPO (world intellectual property organisation) and its paris convention on protection of industrial property (PIP) and patents co-operation treaty (PCT) The Berne (1971) and Rome convention (1961) on copy right. Universal copy right convention (UCC) of 1952, and neighbouring rights and madrid agreement on trade mark registration.

The general agreement on tariffs and trade (GATT) and its creations, World trade organisation (WTO), Uruguay Round (April 1997) and its highly significant instrument "Trade Related intellectual property agreement" (TRIPS).


### UNIT-II Copyrights its contents and forms & related act :

Copyrights its history and definition, provisions of Copy-right act 1957 and copyrights (amendment) act 1994 which includes copyright its nature and meaning. Subject matter of copyright, forms of copyrights, ownership of copyrights assignment of copy rights. copyrights as an authors special rights. Notion and criteria of infringement, their definition and exception, proposition relating to infringement, authorisation of infringement, acts not constituting infringement, infringement of literary, dramatic, musical and artistic works, cinematographic films and sound recording.

Remedies against infringement of copyright - nature and kind of remedies civil and criminal under Copyright Act sec. 55-57, 62, 63-70, slender of title Anton Piller order, international copyrights, copyrights societies and copyright office, copyrights board, legislation of copyright and appeal.

### UNIT-III Trade Marks & designs - their nature & related acts :

Introduction definition evolution and concept of trade marks. Distinction between trade marks and property works, the doctrine of honest current user and doctrine of deceptive similarity, provisions of The trade mark act 1999, it includes definition and interpretation, condition for registration, trade mark registry. Property in a trade-mark, registration of trade mark, its refusal, Berne principles of registration of trade marks, its procedure and evidence. Marks, not registrable, effect and limit on effect, registered trade work, assignment and transmission of registered

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trade marks, use of trade mark and registered user, rectification and correction of the registration, collective marks, provisions relating to textile goods, offences, penalties and procedure, appellate board, its constitution, powers and duties and procedures and other miscellaneous provisions of the act, provisions of Design act 2000, it includes following chapter - definition, registration of design, copyright in registered design legal proceedings, general powers and duties of controller Evidence agency & powers of central government.

#### **UNIT-IV Patents its introduction grant, registration and patents act 1970 :**

Provisions of Patents act 1970 which includes patents, its introduction concept and history, process of obtaining patents, specification, application for patents, examination of application, position to grant a patent, invention not patentable, register of patents and patent office, register and obligation of a patent, Transfer of patent right, Right of the Govt. in case of use of invention provisions for secrecy of certain invention, Patents in addition, procedure for restoration of lapse patents, revocation and surrender of patents, Registration of patents, patents office, its constitution, controller and its power, infringement of patents and treat of infringement proceedings of officers penalties for the Violation of act, licences .. of right, compulsory licences patent agent etc. and miscellaneous provision of the act.


#### **UNIT-V The Information Technology Act 2000 and Leading Cases**

Provision of ITA 2000, it includes introduction, need, coverage, definition digital signature, electronic record certifying authorities, electronic governance, their regulation, penalties, cyber regulation appellate tribunals under ITA act and following leading cases.


1. Grama phone co. of India v. B.B. Pandey (AIR 1984 SC 667)
2. Indian Performing Right Society Ltd. v. Eastern India Motion pictures association (AIR 1977 SC 1443).
3. Monsanto Co. v. Caromandal Idag product (AIR 1986, SC 712).
4. American House Product Corpn. v. Mac Laboratories (Pvt) Ltd. (AIR 1986 SC 137)  
(Dristan Case)

#### **Books Recommended :**

1. Parvin Anand - The law of Intellectual Property (Batter Worth)
2. Bibek Deb Roy - The Intellectual Property Rights (B.R. Publishing, New Delhi)

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3. Terrel - Law of Patents (Rajiv Gandhi Institute of Concept Studies)
4. P.S. Sanyal & Kishore Singh - Indian Patent System
5. Stewart - International copyright and neighbouring right.
6. P. Narayanan - Intellectual Property Law (Eastern Law House, Kolkata / Delhi, 315/-)
7. Vikas Vashisth - Intellectual Property Law (Bharat Law House)
8. Cornish W.R. - Intellectual Property Patents, Trade Names, Copyrights and allied rights (1999) (Universal law publishing Co. Pvt. Ltd.) Ansal's Dilkhush Industrial Estate, G.T. Karnal Rd., Delhi.
9. W.R. Cornish - Intellectual Property (Sweet & Maxwell)
10. Mata Din - Law of passing off and infringement action of trade marks.
11. UIE Anderfelt - International patent legislation and developing countries.
12. The Patent Act 1970
13. The Design Act 2000
14. The Trade Mark Act 1999
15. The Copyright Act 1957.
16. The Information Technology Act, 2000.

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## PAPER – III

### COMPANY LAW

#### (The Companies Act, 2013 WITH AMENDMENTS)

**UNIT-I** Introduction, History and Definition of Company. Registration of Corporate Entity, Corporate Veil, Company and Hindu undivided Family, company and Partnership, Club, Association of Persons, Advantages and Disadvantages of Incorporation, Kinds Companies and Application of the Act.


Interpretation and Definitions of Various Terms.

**UNIT-II** Formation of Companies, Promotion, Promotor and his Rights and Liabilities, Incorporation, Memorandum of Association and Articles of Association, Doctrine of Ultra-Vires, Prospectus, Definition, Contents of Prospectus Punishment for Misrepresentation in the Prospects, Members of the Company, Members and Shareholders and Public Trustees.

**UNIT-III** Share and Share Capital, Allotment of Share, Statutory Restriction on Allotment, General Principles as to Allotment, Company which cannot issue prospectus., Irregular Allotment, Return as to Allotment, Issue of Share at Discount, Underwriting Commission, Brokerage, Issue of Share at Premium, Share Capital : Definition, Nature of Share Certificate, Position of Transferor and Transferee, Procedure, Blank Transfer, Right to Refuse Registration, Restriction on the Acquisition and Transfer of Share, Certificate of Transfer, Kinds of Share, Power of Company to Accept Payment in Advance of Calls, Reserve Liability, Alteration of Capital Reorganisation of Share Capital, Reduction of Capital, Share Warrant.

Directors, Position of Directors, Appointment, Powers and Duties of Directors, Other Office Bearers of the Company.

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**UNIT- V** Dividend, Debenture, Accounts and Audit. Borrowing Powers of the Company. Investment and Contract. Majority Powers and Minority Rights and Rule of Foss and Harbottle. Mismanagement and Remedies ----- Compromise.

Arrangement, Reconstruction and Amalgamation, Investigation and Liquidation and Consequences of Winding up of the Companies.

**UNIT-IV Leading Cases**

1. Saloman Vs. Soloman and Company Ltd., 1897, PC 22.
2. Income Tax Commissioner Vs. Shri Meenakshi Mills, A.I.R., 1967, SC 819.
3. Nareshchand Vs. Calcutta Stock Exchange Association AIR 1971, SC 422.
4. N. Goverdhandas & Company Vs. N.W. Industries Pvt. Ltd. AIR 1971, SC 2600.
5. Official Liquidator Vs. P.A. Tandolkar AIR 1973, SC 1104.
6. R. Methlone Vs. Bombay Life Insurance Corporation Ltd. AIR 1953, SC 195.

**Books Recommended :**

1. Company Law - Philip. K. Thayil.
2. Lectures on Company Law - S.M. Shah.
3. Indian Company Law - Awtar Singh.
4. Company Law - R.R. Maurya.
5. Company Law - Dr. Ramchandran.
6. Students Guide to Company Law – Taxmann
7. Company Law- N.V Paranjape.

  
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PAPER- IV  
LAW OF TAXATION

**UNIT – I GENERAL INTRODUCTION:**

Historical Perspective  
Historical Development of Tax Laws in India  
Concepts of tax  
Nature & characteristics of taxes  
Distinction between tax & fee, tax, & cost  
Distinction between Direct & Indirect tax

**UNIT- II INCOME TAX ACT, 1961:**

Preliminary – Short Title, Extent and Commencement, Definitions, Previous Year Defined(Sec. 1-3) - Basis of charges of Income Tax: Residential status of assesses – its impact on tax liability(Sec. 4-9) Incomes which do not form part of total income(Sec. 10-13)

**UNIT-III**

Computation of Total Income(Heads of income) Salaries, Income from House Property, Profits and Gains of Business or Profession, Capital Gains and Income from Other Sources – general concepts – chargeability to tax – admissible & inadmissible deductions, exclusions and deductions from income(Sec. 14-59)  
Income of other persons included in assessee's Total Income(Sec. 60-65), Aggregation of Income and set- off and carry forward of losses(Sec. 66-80) Deductions to be made in computing total income, Deductions in respect of certain Payments and certain incomes and other deductions, Rebate of Income Tax and Relief for Income Tax(Sec. 80A-89),

**UNIT- IV**

Income tax authorities- Appointment and Control, Jurisdiction, powers & functions, Disclosure of Information(Sec.116-138), Procedure for Assessment(Sec.139-158), Collection and Recovery of Tax-Deduction at source and Collection at source, Advance payment of tax, Collection and Recovery , Interest Chargeable in some cases and Refunds,(Sec. 190-245)Allotment of permanent account number, Settlement of Cases- Appeals and Revision, Appeals to the Appellate Tribunal, Reference to High Court, Appeals to High Court, Appeals to the Supreme Court, Revision and reference(Sec. 245A-269) Penalties Imposable(Sec. 270-275) Offences and Prosecutions- Penalties and prosecutions under income tax act, 1961 for non- compliance, contravention, avoidance and evasion of tax(Sec. 275A-280)

**UNIT – V THE CENTRAL GOODS AND SERVICES ACT, 2017**

Preliminary-Short Title, Extent and Commencement, Definitions, Taxing Authorities, Incidence of Tax(Sec. 1-7) Levy of Tax(Sec. 8-15) Registration of Dealers(Sec.16-18),Returns, Assessment, Payment and Recovery of Tax(Sec.19-38), Refund of Tax, Accounts and Issue of Acts, invoices or cash memoranda(Sec.39-42) Certain powers of the Commissioner and Delegation by the Commissioner(Sec.43-47), Appeals, Revision and Rectification(Sec.48-56), Detection and Prevention of Tax Evasion(Sec.57-63), Offences and Penalties(Sec.64)Miscellaneous and Power to make Rules(Sec.65-74)



## LEADING CASES:

- 1- Commissioner of Income Tax Vs. Anwar Ali AIR 1970 SC 1982
- 2- Calcutta Discount Co. Ltd. Vs. Income Tax Officer, (1961)41 ITR 191(SC) Reopening of Assessment Section-147(9)
- 3- Dwarka Das Keshardeo Morarka Vs. Commissioner of Income Tax (1962)42 ITR 529 On law of Estoppel in Taxation
- 4- Jute Corporation of India Vs. CIT, AIR 1991 SC 341

## BOOKS RECOMMENDED:

- |                      |                                                           |
|----------------------|-----------------------------------------------------------|
| 1- A.K. Saxena       | Income Tax Act                                            |
| 2- Kailash Rai       | Income Tax Act                                            |
| 3 V.K. Shusha Kumari | Law of Income Tax                                         |
| 4- B.L. Babel        | Pratyaksh Kar Vidhayan, Aparadh, Abhiyojan Evam Shastiyam |

## Paper –V

### Moot Court Exercise and Internship

This paper may have three components of 30 marks each and a viva for 10 marks :

- a. Moot Court (30 marks)- every student may be required to do at least three moot courts in a year with 10 marks for each. The moot court work will be on assigned problem and it will be evaluated for 5 marks for written submissions and 5 marks for oral advocacy.
- b. Observance of Trial in two cases, one Civil and one Criminal (30 marks).

Students may be required to attend two trials in the course of the last two or three years of LL.B studies. They will maintain a record and enter the various steps observed during their attendance on different days in the court assignment. This scheme will carry 30 marks.

- (c) Interviewing techniques and Pre-trial preparations and Internship diary 30 marks.

Each student will observe two interviewing sessions of clients at the Lawyer's Office/ Legal Aid Office and record the proceedings in a diary, which will carry 15 marks. Each student will further observe the preparation of documents and court papers by the Advocate and the procedure for the filing of the suit/ petition. This will be recorded in the diary, which will carry 15 marks.

- (d) The fourth component of this will be Viva Voce examination on all the above three aspects. This will carry 10 marks.

The Court work shall be submitted by Student in own handwriting in the College/SOS in Law. The evaluation shall be made by the college/SOS in Law on the basis of participation and record. The college/SOS in Law after valuation shall send the diaries and marks to the University. The Principal/ Head may himself evaluate and allot marks on the record or authorize any senior members of the staff, for this purpose. In the later case the Principal/Head shall countersign on the awarded marks. Viva-Voce Shall be Conducted by the external examiner appointment by University.

#### Books Recommended:

1. Moot Court, Pre-trial Preparation and Participation in trial Proceedings - O.P. Mishra (Advocate).
2. Moot Court Pre-trial Preparation and Participation in trial Proceedings - Dr. S.P. Gupta.

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3. Moot Court Pre-trial Preparation and Participation in trial Proceedings – J.P.S.Sirohi.
4. Practical training for Law students – Prof. J. k. Mittal.

SYLLABUS FOR B.A.LL.B SEMESTER-X

PAPER - I

**TRANSFER OF PROPERTY ACT, 1882 AND  
INDIAN EASEMENT ACT, 1882**

- UNIT - I** Historical evolution of Law of property. Introduction, Short title, Commencement, Repeal of Acts, Interpretation Clause (Ss 1-3), Transfer of Property by act of Parties - Definition of Property, Rule of Transferability, Persons Competent to Transfer, Operation of Transfer and Oral Transfer (Ss 5-9), Condition Restraining Alienation, Restriction Repugnant to Interest, Condition Making Interest Determinable on Insolvency or Attempted Alienation (Ss 10-12), Transfer for the Benefit of Unborn Person, Rule against Perpetuity etc. (Ss 13-18), Vested interest and Contingent Interest (Ss 19-24), Conditional Transfer, Doctrine of Acceleration, Doctrine of Conditional Limitation (Ss 25-34), Doctrine of Election (Ss 35-37), Transfer of Immovable Property (Ss 38-53-A).
- UNIT-II** Sale of immovable property : Definition, Competency of Parties, Difference between Sale and Agreement to Sale, Rights and Liabilities of buyer and Seller (Ss 54-57), Mortgages charges of immovable (Ss 58), Property, Definition, Kinds of Mortgages, Obligation to transfer to third party instead of Mortgagor, Rights and Liabilities of Mortgager (Ss 58-66), Rights and Liabilities of Mortgagee (Ss 67-77), Other Provisions Related to Mortgage including charges (Ss 78-104).
- UNIT-III** Leases of immovable property Definition, Essential Elements of Leases, Modes of Leases, Rights and Liabilities of Lessor and Lessee, Doctrine of Waiver, Determination of Lease and Other Related Provisions (Ss 105-117), Exchanges (Ss 118-121), Gift (Ss 122-129), Transfer of Actionable Claims (Ss 130-137).
- UNIT -IV** Indian Easement Act, 1882 :- Introduction (Ss 1-3), Easement in General (Ss 4-7), Imposition, Acquisition and Transfer of Easements (Ss 8-19), Incidents of Easement (Ss 20-21), Disturbance of Easement (Ss 32-36), Extinguishment, Suspension and revival of easements (Ss 37-51), Licenses, Definition, Ingredients and Revocation of Licenses (Ss 52-64)


**UNIT - V Leading Cases :**

1. Nainsukhdas Shivnarayan Vs. Goverdhan das AIR 1948, Nagpur 110.
2. Associated Hotel of India Vs. R.N. Kapoor AIR 1962, SC 1262.
3. Jama Masjid Vs. Koci Manindra Deviah and other, AIR 1962, SC 807.
4. Kedarnath Vs. Shivnarayan AIR 1970, SC 1717.
5. Kanji Manji Vs. Trusters of Port of Bombay AIR 1963, SC 268.
6. Murari Lal Vs. Devkaran AIR 1965, SC 225.

**Books Recommended**

1. Transfer of Property Act - Mulla
2. Sampatti Antaran Adhinyam - G.P. Tripathi
3. Sampati Antaran Adhinyam - S.N. Shukla
4. Transfer of Property Act 1882 - S.N. Shukla
5. Law of Easement - S.T. Desai
6. Transfer of Property Act, 1882 - G.P. Tripathi

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**PAPER - II**  
**CIVIL PROCEDURE CODE AND LIMITATION ACT**

- 1. Civil Procedure Code 1908**
- 2. Limitation Act, 1963**

**UNIT - I** Civil Procedure Code - Historical Background, Introduction, Short Title, Definition, Kinds of Courts and their Jurisdiction, Stay of Suit, Resjudicata, Bar to Further Suit etc. (Ss 1-14), Place of Suing, Institution of Suit, Summons and discovery, Judgment and Decree, Interest and Costs (Ss 15-35-B), Execution Proceedings, Courts by which decree may be executed, Procedure in Execution, Arrest, Detention, Attachment and Sale, Resistance to Execution (Ss 36-74), Incidental Proceedings, Suit in Particular case, Suit by or against the Government, Suit by Aliens and by or against foreign rulers/ambassadors suits against rulers of former Indian States and Interpleader Suit (Ss 75-88), Appeals, Reference, Review and Revision (Ss 96-115), Miscellaneous Proceedings, Application for Restitution, Right to Lodge a Caveat, Power to make-up deficiency of Court fees, Inherent Powers of Courts, Amendment of Judgement, decrees and order and General power to Amend (Ss 144-153).

**UNIT-II** Parties to Suits, Plaintiff and Defendants, Representative Suit, Joinder, Misjoinder and non-joinder, (Order - I Rules 1-13), Frame of Suit, Recognised Agents and Pleader, Institution of Suits, Issue and Service of Summons (Order II - V), Pleading Generally, Plaint, Written-Statement, Set-off and Counter-Claim (Order VI-VIII), Appearance of Parties and Consequences of non-appearance, dismissal of suits and ex-party Decree and Order, Examination of Parties by the Court, Discovery and Inspection, Admission, (Order IX-XII), Settlement of Issues and Determination thereof, Summary Disposal, Summoning Attendance and Examination of Witnesses, Adjournment of Hearing and Affidavit (Order XIV-XIX).

**UNIT-III** Judgement and Decree, Execution of Decrees and Orders, Death, Marriage and Insolvency of Parties, Withdrawal and Adjustment of Suits (Order XX-XXIII), Commission, Suits by or against the Government and Public Officers, Suits Involving a Substantial Question of Law, Suits by or against Military, Naval or Airmen, Suits by or against Corporation, Suits by or against Firms, Trustees, Executors and Administrators, Suits by or against Minors and Persons of Unsound Mind, Suits Relating to Matters, Concerning the Family, Suit by Indigent Persons, Suits Relating to Mortgagor, Interpleader Suit (Order XXIV-XXXV), Arrest and

Attachment before Judgment. Temporary Injunctions and Interlocutory Order, Appointment of Receiver, Appeal from Original Decrees, Appeal from Appellate Decrees, Appeal from Orders, Appeal by Indigent Persons, Appeal to the Supreme Court, Reference and Review (Order XXXVIII-XLVII).


**UNIT-IV** Limitation Act, 1963 - Historical Background, Short Title, Extent, Commencement and Definition (Ss 1-2), Limitation of Suits, Appeals and Applications (Ss 3-11), Computation of Period of Limitation, Exclusion of Time in Legal Proceedings, Effect of Death on or before the accrual of right to Sue, Effect of Fraud or Mistake, Effect of Acknowledgement in Writing, Effect of Substituting or Adding New Plaintiff or Defendant etc. (Ss 12-24), Acquisition of Ownership by Possession, Acquisition of Easement by Prescription, Reversioner and Extinguishment of Right to Property (Ss 25-27).

**UNIT-V** Leading Cases -

1. P.G.H. Patil Vs. R.S. Patil and others AIR 1957, SC 363.
2. M.P. Shrivastava Vs. Mrs. Veena AIR 1967, SC 1193.
3. Kiran Singh & Others Vs. Chaman Paswan and others AIR 1954, SC 340.
4. State Vs. Administrator AIR 1972, SC 749.
5. Hindustan Aeronautics Vs. Ajit Prasad AIR 1973, SC 76.

**Books Recommended**

1. Civil Procedure Code - Mulla
2. Civil Procedure Code - Viswanath Iyer
3. Code of Civil Procedure - P.K. Majumdar
4. A Guide to Civil Procedure Code - Rama Rao
5. Civil Procedure Code - Sarkar
6. Civil Procedure Code - M.P. Jain
7. Law of Limitation & Prescription - U.N. Mitra
8. Law of Limitation - Dr. N.M. Swami
9. Limitation Act - Sarkar

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## PAPER - III

### INTERPRETATION OF STATUTES

**UNIT-I** Principles and Legislation-Law Making - Legislature, Executive and Judiciary, Principle of Utility, Operation of these Principles upon Legislation, Distinction between Morals and Legislation.

INTERPRETATION OF STATUTES - Introduction, Meaning, Commencement, Operation and Repeal of Statutes, Purpose of Interpretation of Statutes Classification of Statutes.

**UNIT-II** GENERAL PRINCIPLES OF INTERPRETATION - Primary Rules, Literal Rule, Golden Rule, Mischief Rule (Rule in the Hydon's Case) Rule of Harmonious Construction. Secondary Rules, Noscitur a Sociis, Ejusdem Generis, Reddendo Singula Singulis, Utres Magis Valeat Quam Pereat, Contemporanea Expositio est Fortissima in Lege.

PRESUMPTIONS IN STATUTORY INTERPRETATION - Presumption as to Jurisdiction, Presumption Against inconvenient or Absurd, Presumption Against Intending Injustice, Presumption Against Impairing Obligations or Permitting from One's Own Wrong, Prospective Operation of Statutes.

**UNIT-III** AIDS TO INTERPRETATION AND MAXIMS OF STATUTORY INTERPRETATION - Internal Aids and External Aids, MAXIMS - Delegates Non Potest Delegare, Expressio Unius Exclusio Alterius, Generalia Specialibus non Derogant, In Pari Delicto Potior Est Condition Possidentis, Utresvalet Potior Quam Pareat, Expressum Facit Cessare Tacitum, Jure Nature Sunt Immutabilia.

**UNIT-IV** Interpretation with Reference to the Subject Matter and Purpose - Beneficial Construction, Strict Construction of Penal Statutes and Taxing Statutes, Construction and Interpretation of Welfare Legislation, Harmonious Construction of the Statutes, Interpretation of Statutes in Pari Materia, Amending, Consolidating and Codifying Statutes, Mandatory and Directory Enactments and Conjunctive and Disjunctive Enactments.


**UNIT-V** Principles of Constitutional Interpretation - Principles of Implied Powers, Incidental or Ancillary Power, Doctrine of Pith and

Substance and Colourable Legislation, Principles of Implied Prohibition, Occupied Field and Territorial Nexus, Doctrine of Severability and Repugnancy and Doctrine of Eclipse and Ancillary Powers.

Retrospective and Prospective Operation of Statutes.

**Books Recommended :**

1. Principles of Statutory Interpretation - G.P. Singh.
2. Interpretation of Statutes and Legislation - M.P. Tondon and Rajesh Tondon.
3. Statute Law - Craies.
4. Interpretation of Statutes - V.P. Sarthi.
5. Maxwell's Interpretation of Statute - N.M. Tripathi.

  
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## PAPER - IV

### CRIMINOLOGY AND PENOLOGY

- UNIT-I** Definition of Crime and Criminology, Relation of Criminology with other Sciences, Schools of Criminology, Classification of Crimes, its causes and means of control. Socio-economic crimes, white Collar Crime, Organized crime, and crime against women.
- UNIT-II** Juvenile delinquency, its determining factors, differential association, anomaly, and Economic pressure. Difference between Crime and Juvenile Delinquency, Vagarency and Recidivism, Borstals system, reformatory and other correctional institutions of Juvenile, Juvenile court and observation Homes.
- UNIT-III** Definition of Penology and its scope. Theories of punishment, its objects and kinds, capital punishment and its efficacy, Human Rights and Penology.
- UNIT-IV** Indian prison system, Its administration, organization, mode of Recruitment and Training for Jail personal, Jail manual and powers of prison Officials, classification of Prisoners - Male, Female, Juvenile and Adult, under-trial, Rights of the Prisoners, and duties of custodial staff.
- Probation and Parole - Probation of offender's Act - 1958. The suspended sentence, Nature of Parole. Authorize for granting parole and supervision, conditional release. After care service and Prisoners Aid Cell.
- UNIT-V** Police and Criminal Justice, Structural organization of Police at Central and State, mode of recruitment and training. Powers and Jurisdiction of Police under various Acts, Arrest, Scizer, Methods of Police Investigation and Liability of Police for custodial death.

### RECOMMENDED READING MATERIAL

1. IYER -Prospects in Criminology-Law and Social changes (1980).
2. MANHEIM - Comparative Criminology - A Text Book (1965).
3. ROSS A. - Law and Deviance (1981).
4. SUTHERLAND - Principle of criminology (1978).
5. S. RAO - Crime in our Society (1983).
6. A. SIDDIQUE - Criminology Problem and Perspective (E.B.C.) (Lucknow)
7. E. SUTHERLAND - White Collar Crime (1949).
8. P.H. KOHN - Juvenile Offender and the Law (1971).

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9. W. RACKLESS - The prevention of Juvenile delinquency (1972)
10. I.L.I. - Habitual Offender and the Law (1983).
11. INSTITUTE OF SOCIAL DEFENCE- Towards delinquency Control.
12. DAVID ABRAHAMSON - Crime and the Human mind (1974).
13. WALKER, N. - Crime and Criminology - a Critical Introduction.
14. RADZINOWITZ LEION - Ideology of crime (1960).
15. GUILACK SHELDON - Unrevealing Juvenile delinquency.
16. J.M. SETHNA - Society and the Criminals.
17. DAVID ABRAHAMSON - The psychology of Crime.
18. KRISHNA IYER REPORT ON FEMALE PRISONERS - 1986.
19. SCHAZBBRA - The quantum of punishment in Criminal Law.
20. ALF ROSS - ON GUILT-Responsibility and Punishment.
21. LAW COMMISSION OF INDIA - Forty Second Report - Chapters (1971)
22. T.K. BANERJEE - Back Ground of Indian Criminal Law (1990)
23. K.S. SHUKLA - Adolescent off ender (1985).
24. UNITED NATIONS - Begging Rules on Treatment of Young Offenders.
25. P.P. RAJGOPAL - Violence and Response - A Critique of Indian Criminal Justice and System.
26. KATHERNE S. WILLIAMS - Text Book on Criminology (1997). Blackstone London (1997).
27. LOVE LAND - The Frontiers of Criminology (1995) Sweet & Maxwell) 1995.
28. D.C. PANDEY - Hostile offenders and the law (1983).

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## PAPER - V

### DRAFTING, PLEADING AND CONVEYANCING

There shall be two parts of this paper. Part- A will consists of theoretical aspect of drafting, pleading and conveyancing caring 70 marks.

Part- B will be based on the practical works caring 30 marks including 10 marks of viva-voce.

The theatrical paper of 70 marks will be taught through the class instructors and simulation exercises preferably with the assistance of retired judges/ practicing lawyers.

#### PART – A (70 marks)

Part – A shall consist of the following:

##### UNIT - I Pleading:

(i) **Civil:** General Principles of Pleadings with Special Reference to the Following :-


Plaint and written statement with reference to the suits mentioned below :-

- (a) Money Suit
- (b) Ejectment Suit
- (c) Injunction
- (d) Interlocutory application under the provisions of C.P.C.
- (e) Suits under Hindu Marriage Act, 1955
- (f) Suits for Specific Performance of Contract
- (g) Original Petition
- (h) Affidavit
- (i) Execution Petition
- (j) Memorandum of Appeal and Revision
- (k) Petition under Articles 226 and 32 of the Constitution of India.

##### UNIT-II

(ii) **Criminal:** - Criminal Pleadings with respect to the following:-

- (a) Drafting of First Information Report (FIR U/S 154, Cr.P.C.)
- (b) Drafting of Challan/Charge sheet (under section 173, Cr.P.C.)
- (c) Drafting of Charge by the Court

  
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- (d) Complaints for Commission of offences u/s 294, 323/324, 325, 341, 352 and 506 of the Indian Penal Code.
- (e) Criminal Miscellaneous Petition. Interlocutory Application.

- UNIT-III**
- (a) Drafting of Bail Application u/s 436 and 437 of Cr.P.C.
  - (b) Drafting of Anticipatory Bail Application u/s 438, Cr.P.C.
  - (c) Drafting of Cancellation of bail application u/s 439 (i) and (ii) of Cr.P.C.
  - (d) Maintenance application u/s 125-128, Cr.P.C.
  - (e) Memorandum of Appeal and Revision.

**UNIT-IV Conveyancing** : General Principles of Conveyancing with special reference to the following :-

- (a) Sale Deed
- (b) Mortgage Deed
- (c) Lease Deed
- (d) Exchange Deed
- (e) Gift Deed
- (f) Will Deed
- (g) General Power of Attorney
- (h) Promissory Note

- UNIT - V**
- (a) C.G. High Court Rules and Orders (Civil)
  - (b) C.G. High Court Rules and Orders (Criminal)

**PART – B (30 marks)**

**Part – B will be based on the practical work carrying 30 marks including 10 marks of viva-voce.**

**Practicals**

Students will be required to attend the Civil Court for 5 days. The student will observe the proceedings of the Court and take down notes thereon.

After the completion of the attendance and observation of the Court the student will have to submit the report of the proceedings and procedural aspects with their own comments

The evaluation shall be made by the College/SOS in Law on the basis of Participation and record. The Principal/ Head may himself evaluate and allot marks on the record or authorize any senior member of the staff for this purpose. In the later case, the Principal/Head shall countersign on the awarded marks. Viva-Voce Shall be Conducted by the external examiner appointment by University.



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**Books Recommended :-**

1. Mogha's - Pleading
2. Mogha's - Conveyancing
3. N.S. Bindra - Pleading and Practice
4. Murli Manohar - Art of Conveyancing and Pleading
5. Shiv Gopal - Conveyancing, Precedents & Forms.
6. A.K. Banerjee and S.k. Awasthi – Guide to Drafting.
7. Prof. J.K. Mittal : Practical training for law student



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**ORDINANCE NO. 60**  
**MASTER OF LAWS (LL.M.) EXAMINATION**

1. The Course for the Degree of Master of Laws under this Ordinance shall extend over a period of two academic years comprising four semesters in all, for each semester there shall be held an examination in the papers prescribed for the said semester concerned. These semesters shall be called as :


|               |   |                 |
|---------------|---|-----------------|
| LL.M. Part-I  | - | First Semester  |
| LL.M. Part-I  | - | Second Semester |
| LL.M. Part-II | - | First Semester  |
| LL.M. Part-II | - | Second Semester |

2. LL.M. First Semester shall be made in the month of July every year and the Second Semester examination shall be held in the month of January of the following year.

Examinations for all the Semesters shall be held twice a year, namely, January/February and July/August.

3. (a) A Candidate who after having passed the three years course for the degree of Bachelor of Laws of the University or of any other statutory University recognised as equivalent thereto, with atleast 55% of marks (incase of ST/SC/OBC candidate 50% of the marks LL.B. or equivalent Examination) has prosecuted a regular course of prescribed study for one Semester session in the University Department of Law or any college affiliated to the University shall be eligible to appear at the LL.M. Part-I, First Semester Examination.
- (b) A candidate who after having passed LL.M. Part-I, 1<sup>st</sup> Semester Examination of the University has prosecuted a regular course of prescribed study for one semester session in the University Department of Law, or in an affiliated College shall be eligible to present himself/herself at the LL.M. part-I, Second Semester Examination.
- (c) A candidate who, after having passed LL.M. Part-I, Second Semester Examination of this University has prosecuted a regular course of prescribed study for one Semester session in the University Department of Law or a College affiliated to the University shall be eligible to appear at LL.M. Part-II, First Semester Examination.
- (d) A candidate who after having passed the LL.M. Part-II, First Semester Examination of this University has prosecuted a regular course of study for one Semester session in this University Department of Law or a College affiliated to the University shall be eligible to appear at the LL.M. Part-II, Second Semester Examination.
4. (a) No candidate shall be permitted to appear for any of the LL.M. Semester Examination unless he has attended atleast 75% of the total number of Lectures and Seminars held during the Semester session.

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- (b) Every student of the College/University Teaching Department seeking admission to the examination shall submit through the Principal or Head of the Department as the case may be, application on prescribed form, together with necessary fees and following certificates from the Principal / Head of the Department, viz certificates of :
- i. Good Conduct
  - ii. Fitness to present , himself/herself at the examination and.
  - iii. Of having attended the class teacher's seminars, etc. during the session atleast the minimum number's prescribed in sub-para (a) above.
- (a) No candidate who has appeared in any LL.M. Semester Examination but has not been declared successful thereat in accordance with the provisions contained in the following sub para shall be eligible for admission to the next higher semester class examination.
- (b) In order to declare successful at any of the LL.M. Semester examination every candidates will have to obtain atleast 40% marks in individual papers and atleast 50% marks in aggregate.

Provided that for the purpose of declaration of the result of candidates appearing in LL.M. Part-II, Second Semester Examination, the marks obtained by them in the written examination as well as the viva-voce shall be taken into account.

A Successful candidate shall be assigned division on the basis of the marks obtained by him/her in all the four semester examinations taken together. Those who secure 60% marks or more shall be placed in the FIRST DIVISION. All other successful candidates shall be placed in the SECOND DIVISION.

A candidate who has been declared unsuccessful at a semester examination may at his/her option re-appear at it subsequently as ex-student without being required to attend regular course of study again for the same semester subject to the condition that such a candidate shall abide by and shall be governed by provision of this and **other ordinances as applicable**.

5. The Executive Council shall publish the results of the examination as soon as possible for it.

## SCHEMES OF THE EXAMINATION

  
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- 1 (a) Every candidate appearing for LL.M. Part-I, First Semester shall be examined in the following four papers of 100 marks each in which 80 marks for theory paper and 20 marks for Internal Assessment.

|           |   |                                           |
|-----------|---|-------------------------------------------|
| Paper I   | - | LEGAL AND CONSTITUTIONAL HISTORY OF INDIA |
| Paper II  | - | CONSTITUTIONAL LAW & NEW CHALLENGES – I   |
| Paper III | - | CONSTITUTIONAL LAW & NEW CHALLENGES –II   |
| Paper IV  | - | RESEARCH METHODOLOGY                      |


- (b) Every candidate appearing for LL.M. Part-I, Second Semester shall be examined in the following four papers of 100 marks each in which 80 marks for theory paper and 20 marks for Internal Assessment.

|           |   |                                                      |
|-----------|---|------------------------------------------------------|
| Paper I   | - | JURISPRUDENCE AND LEGAL THEORY                       |
| Paper II  | - | INTERPRETATION OF STATUTES AND THEORY OF LEGISLATION |
| Paper III | - | INDIAN ADMINISTRATIVE LAW                            |
| Paper IV  | - | HUMAN RIGHTS AND ENVIRONMENTAL DEVELOPMENT POLICY    |

**LL.M. PART-I, FIRST SEMESTER EXAMINATION  
(Jan/Feb 2018)**

| Sr. No.      | Course Code | Course                                    | No. of Credit | Max Marks          | Min. Marks |
|--------------|-------------|-------------------------------------------|---------------|--------------------|------------|
| 1            | 101         | Legal and Constitutional History of India | 05            | IA – 20, Theory-80 |            |
| 2            | 102         | Constitutional Law and New Challenges -I  | 05            | IA – 20, Th. -80   |            |
| 3            | 103         | Constitutional Law and New Challenges -II | 05            | IA – 20 Th. – 80   |            |
| 4            | 104         | Research Mythology                        | 05            | IA – 20, Th. - 80  |            |
| <b>Total</b> |             |                                           | <b>20</b>     | <b>Total – 100</b> |            |

**LL.M. PART-I, SECOND SEMESTER EXAMINATION  
(July/Aug 2018)**

  
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| Sr. No.      | Course Code | Course                                               | No. of Credit | Max Marks          | Min. Marks |
|--------------|-------------|------------------------------------------------------|---------------|--------------------|------------|
| 1            | 105         | Jurisprudence and Legal Theory                       | 05            | IA – 20, Theory-80 |            |
| 2            | 106         | Interpretation of Statutes and Theory of Legislation | 05            | IA – 20, Th. -80   |            |
| 3            | 107         | Indian Administrative Law                            | 05            | IA – 20 Th. – 80   |            |
| 4            | 108         | Human Rights and Environmental Development Policy    | 05            | IA – 20, Th. - 80  |            |
| <b>Total</b> |             |                                                      | <b>20</b>     | <b>Total – 100</b> |            |

- (c) Every candidate appearing for LL.M. Part-II, First Semester Examination shall be examined in the following papers of 100 marks each in which 80 marks for theory paper and 20 marks for Internal Assessment.

### Constitutional and Administrative Law

- Paper I - Constitutional Law of UK and Commonwealth Relation  
 Paper II - Constitutional Law of USA and Comparative Studies of Other Federal Systems  
 Paper III - Constitutional Law of Canada and Australia  
 Paper IV - Constitutional Law of Japan and Switzerland

### Crimes and Torts

- Paper I - Criminology  
 Paper II - Penology  
 Paper III - General Principles of Criminology Law and IPC  
 Paper IV - Law of Evidence

**LL.M. PART-II, FIRST SEMESTER EXAMINATION**  
**Constitutional and Administrative Law**  
**(Jan/Feb 2019)**

  
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| Sr. No. | Course Code | Course                                                                    | No. of Credit | Max Marks          | Min. Marks |
|---------|-------------|---------------------------------------------------------------------------|---------------|--------------------|------------|
| 1       | 109         | Constitutional Law of UK and Commonwealth Relation                        | 05            | IA – 20, Theory-80 |            |
| 2       | 110         | Constitutional Law of USA and Comparative Studies of Other Federal System | 05            | IA – 20, Th. -80   |            |
| 3       | 111         | Constitutional Law of Canada and Australia                                | 05            | IA – 20 Th. – 80   |            |
| 4       | 112         | Constitutional Law of Japan and Switzerland                               | 05            | IA – 20, Th. - 80  |            |
| Total   |             |                                                                           | 20            | Total – 100        |            |

**LL.M. PART-II, FIRST SEMESTER EXAMINATION**  
**Crimes and Torts**  
**(Jan/Feb 2019)**

| Sr. No. | Course Code | Course                                        | No. of Credit | Max Marks          | Min. Marks |
|---------|-------------|-----------------------------------------------|---------------|--------------------|------------|
| 1       | 113         | Criminology                                   | 05            | IA – 20, Theory-80 |            |
| 2       | 114         | Penology                                      | 05            | IA – 20, Th. -80   |            |
| 3       | 115         | General Principles of Criminology Law and IPC | 05            | IA – 20 Th. – 80   |            |
| 4       | 116         | Law of Evidence                               | 05            | IA – 20, Th. - 80  |            |
| Total   |             |                                               | 20            | Total – 100        |            |


- (d) Every candidate appearing for LL.M. Part-II, Second Semester Examination shall be examined in the following papers of 100 marks each in which 80 marks for theory paper and 20 marks for Internal Assessment.

**Constitutional and Administrative Law**

- Paper I - Law and Social Transformation in India  
 Paper II - Administrative Law (UK, USA, France and India)  
 Paper III - Dissertation  
 Paper IV - Viva-Voce

**Crimes and Torts**

- Paper I - Law of Torts – General Principles  
 Paper II - Specific Torts – Special Topics (1) Negligence (2) Vicarious Liability

  
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Paper III - Dissertation  
Paper IV - Viva-Voce

**LL.M. PART-II, SECOND SEMESTER EXAMINATION  
(July/Aug 2019)  
Constitutional and Administrative Law**

| Sr. No.      | Course Code | Course                                         | No. of Credit | Max Marks             | Min. Marks |
|--------------|-------------|------------------------------------------------|---------------|-----------------------|------------|
| 1            | 117         | Law and Social Transformation in India         | 05            | IA – 20,<br>Theory-80 |            |
| 2            | 118         | Administrative Law (UK, USA, France and India) | 05            | IA – 20,<br>Th. -80   |            |
| 3            | 119         | Dissertation                                   | 05            | 100                   |            |
| 4            | 120         | Viva-Voce                                      | 05            | 100                   |            |
| <b>Total</b> |             |                                                | <b>20</b>     | <b>Total – 100</b>    |            |

**LL.M. PART-II, SECOND SEMESTER EXAMINATION  
(July/Aug 2019)  
Crimes and Torts**

| Sr. No.      | Course Code | Course                                                                 | No. of Credit | Max Marks             | Min. Marks |
|--------------|-------------|------------------------------------------------------------------------|---------------|-----------------------|------------|
| 1            | 121         | Law of Torts -- General Principles                                     | 05            | IA – 20,<br>Theory-80 |            |
| 2            | 122         | Specific Torts – Special Topics (1) Negligence (2) Vicarious Liability | 05            | IA – 20,<br>Th. -80   |            |
| 3            | 123         | Dissertation                                                           | 05            | 100                   |            |
| 4            | 123         | Viva-Voce                                                              | 05            | 100                   |            |
| <b>Total</b> |             |                                                                        | <b>20</b>     | <b>Total – 100</b>    |            |

- (e) Dissertation shall be compulsory for each student. Topics of the dissertation shall be allotted by the Head of the Department. This paper contains 100 marks for script writing.

Each student shall also appear for a Viva-Voce examination of 100 marks.

This will be held before a Board of three examiners of whom two will be external and one internal. The absence of one external examiner may, however, be condoned by the Kulpati, if it is caused due to unavoidable circumstances. Ordinarily, the head of Department of Law will be the Internal examiner.

- (f) Distribution of marks of Internal Assessment: - 20 marks of Internal Assessment as to theory papers shall be divided as following –

  
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- (1) Written Examination - 10 marks  
 (2) Seminar - 05 marks  
 (3) Attendance - 05 marks (above 75% - 05 marks & above 60% - 03 marks)

- (g) The following are the Groups of papers, any one of which shall be offered by the candidates appearing for LL.M. Part-II, Examination, Viz

### Group – I, Constitutional and Administrative Law

#### **LL.M. Part-II First Semester**

- Paper I - Constitutional Law of UK and Commonwealth Relation  
 Paper II - Constitutional Law of USA and Comparative Studies of Other Federal Systems  
 Paper III - Constitutional Law of Canada and Australia  
 Paper IV - Constitutional Law of Japan and Switzerland

#### **LL.M. Part-II Second Semester**

- Paper I - Law and Social Transformation in India  
 Paper II - Administrative Law (UK, USA, France and India)  
 Paper III - Dissertation  
 Paper IV - Viva-Voce

### Group – II, Crimes and Torts

#### **LL.M. Part-II First Semester**

- Paper I - Criminology  
 Paper II - Penology  
 Paper III - General Principles of Criminology Law and IPC  
 Paper IV - Law of Evidence

#### **LL.M. Part-II Second Semester**

- Paper I - Law of Torts – General Principles  
 Paper II - Specific Torts – Special Topics (1) Negligence (2) Vicarious Liability  
 Paper III - Dissertation

Paper IV - Viva-Voce

**Group – III, Personal Laws**

**LL.M. Part-II First Semester**

Paper I -  
Paper II -  
Paper III -  
Paper IV -

**LL.M. Part-II Second Semester**

Paper I -  
Paper II -  
Paper III - Dissertation  
Paper IV - Viva-Voce

**Group – IV, Merchantile Law**

**LL.M. Part-II First Semester**

Paper I -  
Paper II -  
Paper III -  
Paper IV -

**LL.M. Part-II Second Semester**

Paper I -  
Paper II -  
Paper III - Dissertation  
Paper IV - Viva-Voce

**Group – V, International Law Group**

**LL.M. Part-II First Semester**

Paper I -  
Paper II -

Paper III -  
Paper IV -

**LL.M. Part-II Second Semester**

Paper I -  
Paper II -  
Paper III -      **Dissertation**  
Paper IV -      **Viva-Voce**

**PAPER – I (PAPER CODE -- 101)****LEGAL AND CONSTITUTIONAL HISTORY OF INDIA**

This Course is intended to acquaint students of higher studies in law with the legal and Constitutional History of India beginning from 1600 upto date. Abroad reference will also be made to the history of nationalist movement:

**UNIT – I**

1. **INTRODUCTORY** : Early Charters and Surat Factory, Legislative Power, King's Commission, Charter of 1600, Charter 1661, Surat Factory.
2. **ADMINISTRATION OF JUSTICE IN MADRAS (1639-1726)** :  
First period : 1639 – 1665, Judicial System, Second Period : 1665-1686, Third Period : 1686-1726, Admiralty Court, Mayor's Court, Crimes and Punishments.
3. **ADMINISTRATION OF JUSTICE IN BOMBAY (1668-1726)** :  
First Period : 1668-1683, Charter of 1668, Judicial System, Judicial system of 1672, Second Period : 1684-1690, Third Period : 1718-1726, Working of the Court.
4. **ADMINISTRATION OF JUSTICE IN CALCUTTA (1690-1726)** :  
Moghul Judicial System, Zemindar's Judicial Powers, Judicial System at Calcutta.

**UNIT – II**

5. **MAYOR'S COURT** : Corporation, Judicial System, Legislature, Charter of 1726, Madras Charter of 1687, Working of the Judicial System : 1726-1754, Charter of 1753, Courts for the Indians, Defects of the Judicial System.
6. **BEGINNING OF THE ADALAT SYSTEM** : Company becomes Diwan, Significance of Diwani, Execution of Diwani Functions, Judicial Plan of 1772, An Appraisal of the Plan, Plan of 1774, Sardar Nizammat Adalat.

7. SUPREME COURT AT CALCUTTA : Provisions of the Regulating Act, Legislative Authority, Charter of the Supreme Court, Supreme Court and Nizamat & Diwani, Trial of Nandkumar, The Patna Case, The Cossijurah Case, Gora Chand Dutt Case etc., Act of Settlement, 1781, Pitts India Act, 1781, A Dual Judicial System.
8. Supreme Court at Bombay and Madras, Re-organization of the Adalat System, Judicial Measures of Warren Hastings and Cornwallis, Scheme of Criminal Judicature 1790, Further Reforms up to 1793, Defects of the Scheme of 1793, Cornwallis Vs Hastings, Appraisal of the System of 1793.

### UNIT – III

9. Progress of the Adalat System: Sir John Shore, Wellesley Amherst, Criminal Judicature after Cornwallis, Adalat System in Bengal: Willium Bentinck and after, Judicial System Beyond Bengal, Racial Discrimination in the Judicial System. Present Judicial System.
10. HIGH COURT: The Indian High Courts Act, 1861, Charter of the Calcutta High Court, Allahabad High Court, The Indian High Courts Act, 1911, The Government of India Act, 1915, Other High Courts, High Courts under the Government of India Act, 1935, Jurisdiction of the High Courts.
11. From Privy Council to Supreme Court : Basis of the Privy Council's Jurisdiction, Appeals to Privy Council, Progress of Indian Appeals : 1833-1845, High Courts-Appeals to the Privy Council, Appeals by special Leave, Appraisal of the System of Appeals to the Privy Council, Move for an Indian Appeal Court, Federal Court, Demise of Appeals to the Privy Council, Supreme Court, Post Constitutional Development.

### UNIT – IV

12. Development of Criminal Law (1772-1860), Development of Law : Presidency Towns, Development of Civil Law: Mofusil, Codification of Law : 1833-1882
13. Legislature in India (1861-1950) : The Indian Councils Act, 1861, The Indian Councils Act, 1892, The Indian Councils Act, 1909, The Government of India Act 1909 and The Government of India, Act 1919, The Government of India Act, 1935.
14. Law Reform : , Law Reform, History of Reform, Need for Law Reform, Hindu Law and the Courts, Law applicable to sects and sub-sects, Muslim Law and Custom, Hindu Law and Custom, Hindu Law and Legislature, Muslim Law and Legislature, The Special Marriage Act, 1954, Codification of Hindu Law, Uniform Civil Code, Law Commission in India, Administrative of Justice, Reports of the Law Commission of India.

#### UNIT – V

15. Constitutional Developments Leading to Indian Independence (1937 to 1947) : The Cripp's Mission, 1942, Draft declaration, Proposal relating to interim Settlement, Quit India Movement, 1942, Wavell Plan and Simla Conference of 1945, The Cabinet Mission.
16. Provincial Representation in the Constituent Assembly
17. Formation of the Interim Government.
18. The Indian Independence Act, 1947, Effects of the Indian Independence Act, 1947, Shaping of the Indian Constitution, Some Aspects of the Indian Constitution, Evolution of the Indian Constitution, Sources of the Indian Constitution.
19. Personal Laws of Hindus and Mohammedans :



20. Law Reporting in India, Growth of the Legal Profession, Legal Education.

**BOOKS RECOMMENDED :-**

- Jain M.P. : Outlines of Indian Legal History  
 Acharya B.K. : Codification in British India  
 Pylee M.V. : Constitutional History of India  
 Archibald W.A.J. : Outline of India Constitutional History  
 Banerjee A.G. : Indian Constitutional Documents  
 (Vol. I,II,III)  
 Fawcett Charles : First Century of British Justice in India  
 Cowell Herbert : History and Constitution of the Courts  
 Legislative Authority in India  
 Kaye, J.W. : The Administration of the East India  
 Company  
 Setalvad M.C. : Constitutional History of India  
 Stephans J.F. : Minute on the Administration of Justice in  
 British India  
 Keith A.B. : Constitution History of India  
 Morey W.H. : Administration of Justice in British India  
 Rankin G.G. : Background of Indian Law  
 Punniyah K.V. : Constitutional History of India  
 Trevelyan E.J. : The Constitutional and Jurisprudence of the  
 Courts of Civil Justice in British India  
 Field C.D. : Some observations on Codification in India,  
 1833.  
 Jayaswal : Tagore Law Lectures (917)  
 Stocks : Anglo Indian Courts  
 Singh G.N. : History of the Constitutional Development  
 and Nationalis Movement in India  
 Kulshreshth, V.D. : भारत का वैधानिक इतिहास  
 Paranjape, V.N. : Indian Legal & Constitutional History

## LL.M. Part-I, First Semester

### PAPER – II (PAPER CODE -- 102)

#### CONSTITUTIONAL LAW & NEW CHALLENGES - I

This Course is intended to acquaint students with the organization and structure of the Indian Polity, its characteristic features and evolution. A comparative study of Constitutional Law of UK & USA is also desirable.

#### UNIT – 1

1. INTRODUCTION :- Organs of the Government, classification of Constitutions, Forms of Government.
2. HISTORICAL BACKGROUND :- Framing of Indian's Constitution.
3. SALIENT FEATURES OF THE INDIAN CONSTITUTION :- Preamble.

#### UNIT – II

4. THE UNION AND ITS TERRITORY : Article (1 to 4), Citizenship Article (5 to 11)
5. FUNDAMENTAL RIGHTS (Article 12 to 35) : Concept, Historical Background, nature and scope of Fundamental Rights, Fundamental Rights vis-à-vis Human Rights, States and Laws Right to Equality, Right to Freedom, Right against Exploitation, Right to Freedom of Religion, Cultural and Educational Rights, Saving of Certain Laws, Right to Constitutional Remedies.
6. DIRECTIVE PRINCIPLES OF STATE POLICY (Article 36 TO 51) and FUNDAMENTAL DUTIES (Article 51-A)

## UNIT – III

7. THE UNION (Article 52 to 147) : The Executive ( Article 52 to 78)
8. THE STATE (Article 152 to 237) : The Executive (Article 153 to 167)

## UNIT – IV

9. Union Legislature : Parliament of India (Art 79 to 123)
10. State Legislature : Legislative Council & Legislative Assembly ( Art 168 to 213)

## UNIT – V

11. Union Judiciary : Supreme Court of India (Art 124 to 147),  
COMPTROLLER AND AUDITOR-GENERAL OF INDIA (Art 148 to 151 )
12. State Judiciary : High Court of India ( Art 214 to 232),  
SUBORDINATE COURTS (Art 233 to 237)

**BOOKS RECOMMENDED :-**

|                 |   |                                             |
|-----------------|---|---------------------------------------------|
| Pandey J.N.     | : | The Constitutional Law of India             |
| Kumar Narendra. | : | Constitutional Law of India                 |
| Rai Kailash     | : | Constitutional Law of India                 |
| Shukla V.N.     | : | Constitution of India                       |
| Jain M.P.       | : | Indian Constitution                         |
| Basu D.D.       | : | Commentaries on Indian Constitution         |
| Sen D.K.        | : | Comparative Study of Indian<br>Constitution |
| Seervai H.M.    | : | Constitutional Law of India                 |
| Keith A.B.      | : | Constitutional History of India             |
| Tripathi P.K.   | : | Spotlights and Constitutions                |
| Dauglus W.O.    | : | Studies in Indian and American              |

|                      |   |                                                   |
|----------------------|---|---------------------------------------------------|
| Gledhill A.          | : | Constitutional Law                                |
| Setalvd M.E.         | : | Fundamental Rights                                |
| Subramaniam          | : | The Indian Constitution.                          |
| Basu                 | : | Case Law of Indian Constitution                   |
|                      | : | Case Law on Indian Constitutional Law             |
| Shiv Rao B.          | : | The framing of Indian Constitution                |
| Where K.C.           | : | Modern Constitution                               |
| Indian Law Institute | : | Central State Relations                           |
| Indian Law Institute | : | Delegated Legislation in India                    |
| Austin               | : | The Indian Constitution : Cornerstone of a Nation |
| Where K. C.          | : | Federalism                                        |

**LL.M. Part-I, First Semester**

**PAPER – III (PAPER CODE – 103)**

**CONSTITUTIONAL LAW & NEW CHALLENGES -II**

This Course is intended to acquaint students with the organization and structure of the Indian Polity, its characteristic features and evolution. A comparative study of Constitutional Law of UK & USA is also desirable.

**UNIT – I**

01 LOCAL AUTHORITIES : The Union Territories (Article 239 to 241), The Panchayats (Article 243 to 243-O) The Municipalities (Article 243-P to 243-ZG)

02 ELATIONSHIP BETWEEN THE UNION AND THE STATES (Article 245 to 263): Legislative Relations (Article 245 to 255), Administrative Relations (Article 256 to 263)

**UNIT – II**

03 FINANCE, PROPERTY, CONTRACTS AND SUITS (Article 264 to 300-A) : Finance, Financial Provisions, Borrowing, Property, Contracts, Rights, Liabilities, Obligations and Suits, Right to Property, Trade, Commerce and Intercourse within the Territory of India (Article 301 to 307).

**UNIT – III**

04. SERVICES UNDER THE UNION AND THE STATES (Article 308 to 323).

05. TRIBUNALS (Article 323-A & 323-B), Elections (Article 324 to 329), Special Provisions relating to Schedule Caste and Schedule Tribal Caste (Article 330 to 342), Language of the Union (Article 343 to 344), Regional Language ( Article 345 to 347), Language of the Supreme Court and High Courts ( Article 348 to 351)

## UNIT – IV

06. EMERGENCY (Article 352 to 360) and Miscellaneous (Article 361 to 367)

## UNIT – V

07. AMENDMENT (Article 368) : All Amendments of the Constitution till date and All the Schedules.

**BOOKS RECOMMENDED :-**

|                      |   |                                                   |
|----------------------|---|---------------------------------------------------|
| Pandey J.N.          | : | The Constitutional Law of India                   |
| Kumar Narendra.      | : | Constitutional Law of India                       |
| Rai Kailash          | : | Constitutional Law of India                       |
| Shukla V.N.          | : | Constitution of India                             |
| Jain M.P.            | : | Indian Constitution                               |
| Basu D.D.            | : | Commentaries on Indian Constitution               |
| Sen D.K.             | : | Comparative Study of Indian Constitution          |
| Seervai H.M.         | : | Constitutional Law of India                       |
| Keith A.B.           | : | Constitutional History of India                   |
| Tripathi P.K.        | : | Spotlights and Constitutions                      |
| Dauglus W.O.         | : | Studies in Indian and American Constitutional Law |
| Gledhill A.          | : | Fundamental Rights                                |
| Setalvd M.E.         | : | The Indian Constitution.                          |
| Subramaniam          | : | Case Law of Indian Constitution                   |
| Basu                 | : | Case Law on Indian Constitutional Law             |
| Shiv Rao B.          | : | The framing of Indian Constitution                |
| Where K.C.           | : | Modern Constitution                               |
| Indian Law Institute | : | Central State Relations                           |
| Indian Law Institute | : | Delegated Legislation in India                    |
| Austin               | : | The Indian Constitution : Cornerstone of a Nation |
| Where K. C.          | : | Federalism                                        |

**LL.M. Part-I, First Semester**

**PAPER –IV (PAPER CODE – 104)**

**RESEARCH METHODOLOGY**

**UNIT – I**

- 01 Introduction, Scope of Sociology, Nature of Social Phenomenon, Characteristics of Social Phenomenon
- 02 Law-- Meaning of Law, Nature of Law, Purpose of Law, Sociology of Law, Importance of duty/ obligation, Relation between juristic science and social science

**UNIT – II**

- 03 Meaning, Nature and Scope of Legal Research—Introduction, meaning of research, Legal Research, Importance and Utility of Research, Nature of legal research and legal research method, Benefits of legal research, Necessity of legal research, Scope of legal research, Aims and objective of legal research, Motivating factors of legal research, Facts, events and data of legal research, Basic assumptions of socio-legal research, Quality of a good legal researcher.

**UNIT – III**

- 04 Legal research Methodology—Meaning of methodology, Research method and Research technique, Main Characteristics of research methodology.
- 05 Background and Development of Legal Research in India—The different Phases of legal research in India(First, Second, Third and Fourth Phases of legal research in India)
- 06 Various Kinds of Legal Research-- Kinds of research according to objectives of study material, Kinds of research according to the methods available for doing research, Legal Reasoning, Concept and their Role in Scientific legal investigation, Theory and research.
- 07 Major Steps involved in doing legal research(The legal research process), Selection or Formulation of legal research problem or topic.

  
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## UNIT – IV

- 08 Hypothesis—Meaning, Characteristics and Sources of Hypothesis, Types of Hypothesis, Testing of the Hypothesis, Legal Research Design, Part of Research Design, Characteristics of a good research design, Types of research design, Sampling design for legal research, meaning of Sampling, Merits and demerits of sampling, Characteristics, Types of Sampling
- 09 Research Data, Forms, Sources, Tools and Collection of Data, Different methods for collecting the data, Observation Method and its different kinds, Interview Method and its different kinds, Schedule Method and its kinds, Questionnaire Method and its kinds, Case Study Method and Survey Method

## UNIT – V

- 10 Data Processing—Editing, Coding, Classification and Tabulation, Analysis and Interpretation of Data, Generalization in Legal Research, Problem of measurement in legal research, Scaling technique in legal research, Sociometry in legal research, Jurimetrics.
- 11 Method of using Libraries and the use of Computer in legal research. Inter-Disciplinary Research
- 12 Preparation of Research Report and its Writing.

**REFERENCE BOOKS:**

- 1---Dr. S.R. Myneni-Legal Research Methodology, Published by Allahabad Law Agency
- 2---Dr. H.N. Tiwari- Legal Research Methodology, Published by Allahabad Law Agency
- 3---Shilpa Agrawal- Legal Research Methodology
- 4---Indian Law Institute-Legal Reserch and Methodology, Edited by S.K. Verma and M. Afzal Wani
- 5---William P. Statisky- Legal Research
- 6---Evwinc Surrency- A Guide to Legal Research
- 7---William J. Goode& Paul K. Hatt-Method in Social Research
- 8---Dr. H.N. Giri-Legal Research Methodology ( Written in Hindi)
- 9---Dr. Sanjay Kulshrestha-Vidhik Anushandhan Paddhatiya(Written in Hindi)
- 10---Dr. Bashanti Lal Babel-Legal Education and Research Methodology(Written in Hindi)



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**LL.M. Part-I, Second Semester**

**PAPER -- I (PAPER CODE -- 105)**

**JURISPRUDENCE AND LEGAL THEORY**

**UNIT-I**

- 1. CRITICAL SURVEY OF LEGAL THEORIES :** Natural Law and the search for absolute values, the problem of natural law, ancient theories, reasons and the law of nature, natural law and social contract (Grotius, Hobbes, Locke, Rousseau) Revival of Natural Law theories

**UNIT-II**

- 2. . PHILOSOPHICAL IDEALISM AND THE PROBLEM OF JUSTICE :** German Transcendental Idealism (Kant, Fichte, Hegel) Neo Kantian Philosophy and Scientific legal idealism, modern value, philosophy and Law.

**UNIT-III**

- 3. THE IMPACT OF SOCIAL DEVELOPMENT ON LEGAL THEORIES, HISTORICAL EVOLUTION AS A GUIDE TO LEGAL THOUGHT, BIOLOGY, SOCIETY AND LEGAL EVOLUTION, MODERN SOCIOLOGICAL THEORIES OF LAW.**

**UNIT-IV**

- 4. POSITIVISM AND LEGAL THEORIES :** Kelsen's pure theory of law, Utilitarianism, the Jurisprudence of interests and legal idealism,

**Legal Theory and contemporary problems :** Legal theory of Modern political movements, socialistic and

communist theories of law, Neo- Scholastic Doctrine and modern catholic legal philosophy.

## UNIT-V

### 5. LIABILITY PROPERTY OBLIGATION & EVIDENCE

- a) Rights and Duties
- b) Possession and ownership
- c) Person
- d) Title
- e) **Liability** - Definition, Nature, Kind - Civil and Criminal General conditions of liability - Negation, Their Theories Subjective & Objectives, Mental aspects, Duty of care, Standard & Care, Exemptions for Liability.
- f) **Obligation** - Definition, kinds and sources of obligation.
- g) **Property** - Its meaning and kinds and theories mode & acquisition, Its relation with law.
- h) **Evidence** - Procedural and Substantial, Element of Judicial procedure Evidence its nature and kinds.

### BOOKS RECOMMENDED -

1. HLA Hart - The Concepts of Laws (Oxford) ELBS
2. Salmond - Jurisprudence (Tripathi) Bambay
3. G.W. Paton - Jurisprudence (Oxford) ELBS
4. RWM Dias - Jurisprudence (Indian Rep.) (Aditya). New Delhi.
5. V.D. Mahajan - Jurisprudence Legal Theory (EBC). Lucknow
6. W. Fridmann - Legal Theory (1999) (Universal) Delhi.
7. S.N. Dhyani - Jurisprudence - A study of Indian Legal Theory (Metropolitan), New Delhi.
8. M.S. Pandit, Out lines of Ancient Hindu Jurisprudence

**LL.M. Part-I, Second Semester**

**PAPER – II (PAPER CODE – 106)****INTERPRETATION OF STATUTES & THEORY OF LEGISLATION**

The Courses is intended to acquaint the students of advance studies in Law with the History and Development of Legislation with special reference to the Western Legal Systems and a comparative study of legislation in India Legal System particular attention is to be paid to the Benthamite movement of legislation and its comparative impact on other legal systems. The subject of study shall inter-alias include- (1) Principles of Legislation (2) Methods of Legislation, and (3) Interpretation of Statutes.

**UNIT-I**

1. **PRINCIPLES AND LEGISLATION – LAW :-** Legislature, Executive and Judiciary, Principle of Utility, Operation of these Principles upon Legislation, Distinction between Morals and Legislation.

**INTERPRETATION OF STATUTES -** Introduction, Meaning, Commencement, Operation and Repeal of Statutes, Purpose of Interpretation of Statutes Classification of Statutes.

**UNIT-II**

- (2) **GENERAL PRINCIPLES OF INTERPRETATION -** Primary Rules, Literal Rule, Golden Rule, Mischief Rule (Rule in the Hydon's Case) Rule of Harmonious Construction. Secondary Rules, Noscitur a Soclis, Ejusdem Generis, Reddendo Singula Singulis, Utres Magis Valeat Quam Pereat, Contemporanea Expositio est Fortissima in Lege.

**PRESUMPTIONS IN STATUTORY INTERPRETATION -** Presumption as to Jurisdiction, Presumption Against inconvenient or Absurd, Presumption Against Intending Injustice, Presumption Against Impairing Obligations or Permitting from One's Own Wrong, Prospective Operation of Statutes.

**UNIT-III**

- (3) **AIDS TO INTERPRETATION AND MAXIMS OF STATUTORY INTERPRETATION** - Internal Aids and External Aids, **MAXIMS** - Delegates Non Potest Delegare, Expressio Unius Exclusio Alterius, Generalia Specialibus non Derogant, In Pari Delicto Potior Est Condition Possidentis, Utresvalet Potior Quam Pareat, Expressum Facit Cessare Tacitum, Jure Nature Sunt Immutabilia.

#### UNIT-IV

- (4) **INTERPRETATION WITH REFERENCE TO THE SUBJECT MATTER AND PURPOSE** : Beneficial Construction, Strict Construction of Penal Statutes and Taxing Statutes, Construction and Interpretation of Welfare Legislation, Harmonious Construction of the Statutes, Interpretation of Statutes in Pari Materia, Amending, Consolidating and Codifying Statutes. Mandatory and Directory Enactments and Conjunctive and Disjunctive Enactments.

#### UNIT-V

- (5) **PRINCIPLES OF CONSTITUTIONAL INTERPRETATION** : Principles of Implied Powers, Incidental or Ancillary Power, Doctrine of Pith and Substance and Colorable Legislation, Principles of Implied Prohibition, Occupied Field and Territorial Nexus, Doctrine of Severability and Repugnancy and Doctrine of Eclipse and Ancillary Powers. Retrospective and Prospective Operation of Statutes.

#### Books Recommended :

|              |                                                |
|--------------|------------------------------------------------|
| Bentham      | : Theory of Legislation                        |
| Jethro Brown | : Undertaking Principles of Modern Legislation |
| Decey A.V.   | : Law and Public Opinion                       |
| Illbert C.   | : Mechanics of Law Making                      |
| Maxwell      | : The Interpretation of Statute                |

  
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|                     |                                                       |
|---------------------|-------------------------------------------------------|
| Sing G.P.           | : Principles of Statutory Interpretation              |
| Beal                | : Rules of Interpretation                             |
| Ginsberg<br>Century | : Law and Public Opinion and England 20 <sup>th</sup> |
| Rathan Swami        | : Legislation Principle and Practice                  |
| Craise              | : Interpretation of Statute Law                       |
| James               | : Bentham and Legal Theory                            |
| Dale W.             | : Legislative Drafting a New approach                 |
| Cross R.            | : Statutory Interpretation                            |
| Odgers              | : Constriction of Deeds and Statute                   |
| Swaroop J.          | : Legislation and Interpretation                      |
| Bentham             | : Principles of Statutes in British India             |
| Sarathi, V.P.       | : Interpretation of Statutes.                         |
| Tripathi, N.M.      | : Maxwell's Interpretation of Statute                 |
| Dicey A.V.          | : Law and Public opinion in England                   |
| Arora J.D.          | : Principles of Legislation (in Hindi)                |

**LL.M. Part-I, Second Semester**

**PAPER – III (PAPER CODE – 107)**

## INDIAN ADMINISTRATIVE LAW

### UNIT-I

**1. Introduction of administrative law, administrative process, discretion and direction :**

Definition of Administrative Law, Development of Administrative Law, Nature and Scope of Administrative Law, Rule of Law and Administrative Law, Separation of Powers and Administrative Law, Changing role of the State and It's impact on Administrative Law.

**Administrative Process** - Administrative Processes in India : The President vested with the Executive Power (1) Emergency powers of the President (2) An Evaluation of the President's powers (3) Can Mandamus be availed of against abuse of power under part XVIII of the Constitution, Ministerial Responsibility, The Indian Approach as to Minister's Powers., Development of Administrative Law in India. The Progress of Administrative Adjudication

**Administrative Discretion** - Meaning, nature and criteria, its use or principle applicable for its use, need for administrative discretion, limit on exercise of discretion, mala fide exercise of discretion acting under dictation, constitutional imperative... and use of discretionary authority, non-application of mind, unreasonableness and standard of reasonableness, taking irrelevant consideration or not taking in to consideration among relevant matter, non exercise of discretionary powers, administrative arbitrariness and bias. Procedural safe guards for use of discretion.

**Administrative Direction** - its use and classification, its unenforceability.

### UNIT-II

**Delegated legislation, Administrative adjudication & Tribunal**

Reason for development of Delegated Legislation, methods of Delegates: Power to fill in details, Power of inclusion and exclusion, Power to modify the statute, Power to bring and Administrative into operation.

Delegated legislation, its historical background and function, reasons for its growth, need for delegation of administrative power, kinds of delegated legislation, sub-delegated legislation and conditional legislation, constitutionality of delegated legislation in Britain and India, Re Delhi Laws Act, Power of exclusion and

inclusion and power to modify statutes, essential legislative functions, requirement for the validity of delegated legislation.

**Judicial control of delegated legislation** - Doctrine of ultra virus, its kinds, substantive and procedural grounds for its applicability, consultation, sub delegation, publication, administrative directions, circular legislative or parliamentary control on delegated legislation, laying procedure, policy statement, committees on delegated legislation and hearing before it, sub delegation & powers, guide-lines for it, and control of sub delegation, administrative adjudication and tribunals, reasons for proliferation of administrative tribunals, functional approach characteristics and feature of administrative tribunals, Basic difference between a court and a tribunals, position of tribunals in India, CAT its purpose, establishment and composition, jurisdiction power and authorities, aspect of tribunal practice and administrative procedure, procedure before the enquiry or hearing, procedure at the tribunal hearing and procedure after tribunal hearing, frank committee report, administrative tribunal act 1985, administrative tribunals and appeal judicial review and finality of the tribunal decision, reopening of tribunal proceeding rule of resjudicate, Administrative tribunals in India.

### UNIT-III

**The Principles of Natural Justice** : Principle of natural Justice and violation thereof, The first principles: Justice in one's own cause, Bias, Judge's Bias, The second principle- Hearing the other side, Limit to the rule of Audi alteram Partem. The third principle: party to know the reason for the decision, effect of contravention: void or voidable. Against whom natural justice are not violated, when rules of natural justice are not violated, General Principles as revealed by Judicial Decisions, Limits of Judicial Review, Exceptional exclusion of Natural Justice.

### UNIT-IV

#### **State Liability for Wrongs Act & Commission of Inquiry & Corporate:**

Liabilities for torts, distinction between sovereign and commercial functions, constitutional provisions in this regard, act of state and statutory immunities contractual liability of Govt., Government privilege in legal proceeding state secrets, public interest, transparency and right to information estoppec and waiver.

Remedies against administrative acts, constitutional remedies writ injunctions, its nature and types, distinction between injunction and mandamus, suit for declaration, its condition and nature, suits for damages.

Public enquiry and commission of enquiry, general enquiry under service rules, procedure in disciplinary action and Provisions of commission of enquiry act 1952. and

**Corporation** : Corporations, its kinds and characteristics, its classification, legal and constitutional provisions & their responsibilities in contract and in tort, position of their employee whether they are civil servants ? Control on corporation, legislative control, judicial control, governmental control and public controls.

#### UNIT-V

##### **Ombudsman, Vigilance commission & Right to Information Act**

Ombudsman, its development in Newzealand, Britain and Australia. Position of Ombudsman in India. Lokpal and Lokayukt and their position, Public Interest litigations its nature and importance in Democracy. Central vigilance commissions its powers and functions

**Right to Information Act, 2005**-Introduction, Right to Information and Voluntary Organization, Right to Information in the Foreign Countries, Request for Right to Information, Constitution, Rights and Obligations of the Information Agencies, Procedure of Disposal of Applications and Complaints by State Commissions with special reference to Section 18, 19 and 20 of Right to Information Act 2005.

:

##### **Books Recommended :**

1. Jain and Jain - Principles of Administrative law, Tripathi (1986).
2. Wade - Administrative law (Indian Rep.) Universal Delhi.
3. J.C. Garner - Administrative law, Butherworth (1990)
4. D.D. Basu - Comparative Administrative law (Prentice Hall).
5. I.P. Massey - Administrative law EBC, Lucknow. (1996).
6. M.P. Jain - Cases and material on Indian Administrative law (Vol I & II) 1998  
Universal book traders Delhi.
7. S.P. Sathe - Administrative law (1998), butterworth (India), Delhi.
8. De Smith - Judicial review of Administrative Action (1995) with supplement. Sweet & Maxwell.
9. M.A. Fazal - Judicial control of administrative action in India Pakistan & Bangladesh (2000), Butterworth India.
10. Indian law institute - Cases and material on Admininstrative law in India vol. I (1996), Delhi.



**LL.M. Part-I, Second Semester**

**PAPER – IV (PAPER CODE – 108)**

**HUMAN RIGHTS & ENVIRONMENTAL DEVELOPMENT POLICY**

  
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### UNIT-I

1. CONSTITUTION AND HUMAN RIGHTS: Fundamental Rights, Directive Principles and Fundamental Duties, International Human Rights and the Indian Constitution, Judicial Review and Administrative Actions with reference to Human Rights, State of Human Rights during Emergency (v) Judicial Activism – protection of human rights, Liberty, Equality and Fraternity in Human Rights Perspective.

### UNIT-II

2. SPECIAL LAWS FOR PROTECTION OF SPECIFIC CATEGORIES / VULNERABLE SECTIONS OF THE PEOPLE : Reservations and the Right to Equality, Protection of Minorities-Cultural and Educational Rights, Contract and Unorganized Workers, Bonded Labor, Tribal People
- 3.

### UNIT-III

4. ENFORCEMENT OF HUMAN RIGHTS : Judiciary: Article 32, Article 226 – Public Interest Litigation, National Specialized Agencies: Law Commission, SC/ST commission, Minorities Commission, Women's Commission, Human Rights Commissions, Criminal Justice Delivery System, Legal Aid, NGO's, Social movements and pressure groups working through democratic institutions such as lobbying MPS, Media, International Redressal Mechanism.

### UNIT-IV

5. THE CONCEPT OF ENVIRONMENT :
- (1) Meaning and Historical Perspective, Traditions, Natural and Biological Sciences: Perspectives, Modern concept : Conflicting dimension.
- (2) INTERNATIONAL PERSPECTIVES AND DEVELOPMENT: Stockholm Declaration, 1972, Right to development: UN Declaration on the Right to Development, 1986, Right to development versus right to clean environment, Rio Declaration: Sustainable development.

- (3) ENVIRONMENTAL PROTECTION IN INDIA : Constitutional rights and duties, Precautionary principle, Public trust doctrine, Polluter pay principle

### UNIT-V

6. ENVIRONMENTAL PROTECTION IN DEVELOPING COUNTRIES : (1) Poverty, Indigenous people and Tribal, Developing economies, Depletion of forest and natural resources.  
INTERNATIONAL CONCERN : World environment movement, Natural and cultural heritage: Common Heritage Principle, Role of international and regional organization, International financing policy and world environment fund, Global Environmental Facility (GEF).

#### Books Recommended :

1. J.K. Starke - An Introduction to the International Law.
2. J. L. Brierley - The Law of Nations (Oxford)
3. A.K. Pillai - National Human Rights Commission.
4. S.K. Verma - An Introduction to Public International Law (Prentice-Hall India).
5. All the Covenants and Conventions.
6. Shaw M.N. - International law (CUP).
7. M.C. Nair - The Law of Treaties (Oxford)
8. Paras Diwan & Piyushi Diwan - Human Rights & The Law - Universal & Indian.
9. S.K.Kappor - Human Rights under International Law and Indian Law Central Law Agency Allahabad.
- (2)10. D.D.Basu - Human Rights in Constitutional Law (Prentice - Hall).

### Group A CONSTITUTIONAL AND ADMINISTRATIVE LAW

### THIRD SEMESTER

**PAPER - I (PAPER CODE 109)****CONSTITUTIONAL LAW OF UK AND  
COMMONWEALTH RELATION****Unit-I**

The nature of British Constitutional development, Rise and growth of Parliament. The nature of the British Constitutional Law, Fundamental Laws and Judicial review of legislation, The scope of Constitutional Law, The functions of the Government doctrine of separation of power, The rule of law general characteristics of the British Constitution conventions of the British Constitutional law, nature and classification of the conventions.

**Unit-II**

The central government- The monarchy and its relevance, The Royal prerogative and immunities general nature of the prerogative, The prerogative in domestic areas and foreign affairs. The cabinet and the Prime-Minister Parliamentary Supremacy- History, Growth and nature of Parliamentary Supremacy Limitation on the sovereignty of Parliament, The birth growth composition fundamental and importance of the House of Lords, The development, organization, powers and functions of the House of Commons, Parliamentary or legislative procedure, committee system, Parliamentary privileges.

**Unit-III**

The United Kingdom and Europe- Introduction, The Sources of Community Law, European Community Act 1972, Community Law as a source of domestic Law, Parliament and Community Law, The impact of Community Law, The Armed Forces and the Emergency Powers of the executive emergency powers and personal freedom.

Administration of Justice- Features and organization of the British Judicial system, Composition, Powers and Jurisdiction of the Supreme court the Privy councils, The Judicial functions of the Privy council at present day.

**Unit-IV**

Rights and Duties of the individual – Rights of the individual under the United Kingdom Constitution, International Covenants, European Convention for the protection of human rights and fundamental freedoms, 1950 and European Social charter, 1961 and the Human Rights Act, 1998 Freedom of person and freedom of property, freedom of expression, freedom of assembly and freedom of Association, Nationality Citizenship, Immigration and Extradition.

#### Unit-V-

The Commonwealth- Dependent Territories- The British Islands, Territories of the commonwealth, British Colonies, The Colonial Validity Act, 1965, Independence within the commonwealth- The Dominions and the statute of Westminster (The Statute of Westminster 1931), Extension of U.K. legislation to the dominions, The common-wealth at present day, Appeals to the Privy Council- Appeals from dependent territories and Appeals from Independent commonwealth countries.

#### BOOKS RECOMMENDED:

|                         |   |                                               |
|-------------------------|---|-----------------------------------------------|
| Dicey A.V.              | : | Law of the Constitution                       |
| Wade and Phillips       | : | Constitutional Law                            |
| Hood and Phillips       | : | Constitutional Law                            |
| Keir and Lawson         | : | Cases on Constitutional Law                   |
| Jenning and Young       | : | Constitutional Law of the<br>Common Wealth    |
| Jenning                 | : | Law and Constitution                          |
| Yeardley and Young      | : | Introduction to British<br>Constitutional Law |
| Mackintosh              | : | British Constitution                          |
| Jenning                 | : | Cabinet Government                            |
| Cooley                  | : | Constitutional Limitations                    |
| Gladhill. A.            | : | British Commonwealth                          |
| Hood Phillips & Jackson | : | Constitutional and Administrative<br>Law      |

डॉ. वी. पी. सिंह : विश्व के प्रमुख संविधान

#### PAPER –II (PAPER CODE 110)

#### CONSTITUTIONAL LAW OF USA AND COMPARATIVE STUDIES OF OTHER FEDERAL SYSTEMS

**Unit-I**

General Background of the Constitution of USA—Historical Background of the

Constitution, Causes of the Revolution, Establishment of Confederation, Articles of Confederation, Nature of Confederation, Defect of Confederation, Failure of Confederation.

The Constitutional Convention—Making of the Constitution(Philadelphia Convention), Compromises of Philadelphia Convention, Ratification of the Constitution, Growth of the Constitution ,Methods and sources of the development of USA Constitution, Salient Features of the American Constitution.

**Unit-II**

Separation of Powers, Doctrine of Check and Balances, Criticism of the Separation of Powers in America. Delegation of Legislative Powers, Methods of Control over Delegation of Power.

Amendments of the Constitution—Procedure for Amendment of the Constitution, Ratification by the States, Scope of Amendments, All amendments of the Constitution.

**Unit-III**

American Federal System—Formation of Federation, Federal Features in the American Constitution, Distribution of Powers, Method of Distribution ,Powers of the Federal Government and the Powers of the State Governments(Powers possessed and Powers denied of both the Government) Residuary powers of the State Government, Doctrine of Implied Powers, Factors Responsible for the growth of National Powers in America.

The President—Characteristics of American Presidency, Election of President, Powers and Functions of the President, American Cabinet system

The American Congress—Composition, Powers and Functions of the Senate, Composition, Powers and Functions of the House of Representative, Legislative Procedure and Committee System.

**Unit-IV**

Federal Judiciary in America(Supreme Court and Judicial Review)—Organization of Federal Judiciary, Composition , Appointment,

Tenure, Removal of the Judges of the Supreme Court, Working of the Supreme Court, Jurisdiction and Role of Supreme Court, Judicial Review, Judicial Activism or Judicial Self Control.

Fundamental Rights under the American Constitution—Classification and Description of Fundamental Rights (i) Personal Rights (ii) Rights relating to Judicial Process (iii) Rights to Property.

### Unit-V

Co-operative Federalism, Financial Relation of Federal and State Government,

The Taxation and Fiscal powers of Congress, Direct Taxes and Excises.

Interstate Commerce Clause under the American Constitution, Doctrine of Immunity of Instrumentalities under the USA Constitution, Doctrine of Eminent Domain, Police powers of the State.

War Powers under the American Constitution, Military Law, Power to make Peace, Admission of New States, Citizenship.

### BOOKS RECOMMENDED:

|                    |   |                                         |
|--------------------|---|-----------------------------------------|
| Growin             | : | Constitution of the United States       |
| Growin             | : | Constitution and what means today       |
| Thoms M. Cooley    | : | Constitutional Law in the USA           |
| Ridge              | : | Constitutional Law                      |
| Tressolini         | : | American Constitutional Law             |
| Mason and Beane    | : | American Constitutional Law             |
| Pritchett C.H.     | : | American Constitutional                 |
| Antieau            | : | Commentaries on the Constitution of USA |
| Shapin             | : | American Constitutional Law             |
| Enight             | : | Constitutional Law                      |
| Kelley & harbinson | : | American Constitution                   |
| डॉ. वी. पी. सिंह   | : | विश्व के प्रमुख संविधान                 |

### PAPER – III (PAPER CODE 111)

### CONSTITUTIONAL LAW OF CANADA AND AUSTRALIA

#### Unit I--

Historical Development, History of Constitution, Durham Report, Origin of Canadian Federation, Sources of the Constitution of Canada Salient Features of the Constitution, Conventions of the Constitution, Nature of the Constitution, Federal Features of the Canadian Constitution.

## Unit II

Dominion Executive – crown, governor general of Canada, Powers of the Governor General, Real position of governor general, Utility and usefulness of the Governor General, The privy council of Canada Canadian cabinet, composition, powers and functions of the cabinet Prime minister, position and power of PM  
The Canadian Legislature – Composition , powers and functions of the senate ,Comparison between USA senate and Canadian senate Composition , powers and functions of the House of Commons ,Procedure of law making  
Canadian Judiciary – features of Judiciary, courts of Canada, powers of Supreme Court of Canada, Judicial review in the constitution of Canada

## Unit III

History of Development of Australia, making of the Constitution, features of the constitution of the Australia, Federal system in Australian constitution. Characteristics of federal system, Distribution of Powers, Reasons of the extension of powers of federal Government. The Federal Executive- The governor General, Powers and functions of the Governor General. Appointment of Prime Minister Powers and functions of Prime Minister, Position of Prime Minister, Cabinet, Composition , Powers and function of cabinet.

## Unit IV

The Parliament- The senate, Composition, Powers and function of senate, House of Representative, Composition, Powers and functions of House of Representative President of Senate, Speaker of House of Representative Privileges etc. of Houses. Legislative procedure, Powers of the House in respect of legislation.

## Unit V

The Judiciary- Organization of Judicial system in Australia, Powers, functions and jurisdiction of the High court of Australia, Finance, Scope of trade and commerce power in Australian Constitution, Taxing powers, Doctrine of Immunities of



Instrumentalities State autonomy in Australia, Commonwealth Grant Commission of Australia, Procedure of amendment of the constitution  
Incidental powers.

**BOOKS RECOMMENDED:**

|                   |   |                                                 |
|-------------------|---|-------------------------------------------------|
| Paton             | : | Law of Commonwealth of Australia                |
| Swat              | : | Cases on Constitutional Law of Australia        |
| Sweetman          | : | Australia Constitutional Developments           |
| Mitchell E.       | : | Essays on the Australian Constitution.          |
| Howard            | : | Australian Federal constitutional Law           |
| Lane              | : | An Introduction to the Australian Constitution. |
| Lumb;             | : | The Constitution of common Wealth Australia     |
| Fajanbauem        | : | Australian Constitutional Law Cases             |
| Lane P.H.         | : | The Australian Federal System                   |
| डॉ. वी. पी. सिंह: |   | विश्व के प्रमुख संविधान                         |
| डॉ. ओ पी. नागपाल  |   | जापान, आस्ट्रेलिया और नेपाल का संविधान          |

**PAPER – IV (PAPER CODE 112)**

**CONSTITUTIONAL LAW OF JAPAN AND SWITZERLAND**

**Unit I**

Historical Background of Japan ,Importance Of The Study Of The Japanese Constitution , Constitutional Development Of Japan , Meiji Constitution Framing of The Modern Constitution.

Nature of The Japanese Constitution, Characteristics Features of the Constitution, Comparison between the old and new Constitution.

The Rights and Duties of the People-

Introduction, General Provision, Specific Rights, Procedure of amendment of the Constitution.

## Unit II

The emperor- powers and functions of Emperor , Real Position of Emperor , The Cabinet , Composition of the Cabinet , Powers and Functions of The Cabinet.

The Legislature – History of Diet, Composition , powers and functions of the House of Representatives , Composition , Powers and Functions of the house of Councilors , Legislative Procedure , Committee System in Japanese Constitution.

Judiciary -- Organization of Modern Judiciary, Constitution Powers and Jurisdiction of Supreme Court.

## Unit III

Swiss Constitution – Historical Background, importance of the Swiss Constitution, Characteristics of the Swiss Constitution. Basic, Civil and social rights.

The Swiss Federal System, Dual polity System, Distribution of Powers, Federal status of the cantons, Extension of the powers of the centre procedure of amendment.

## Unit IV

The Federal Legislature- Composition , Powers and functions of the council of states, privileges and Immunities, Composition , Powers and Functions of the National Council, Powers of the Federal Assembly, Working of the Federal Assembly.

Federal Executive—Organization of the Federal Council, Powers and Functions of the Federal Council, Relation of the Federal Council with the Federal Assembly, President of the Swiss Confederation, Nature of the Federal Executive, The Federal Chancellery.

## Unit V

The Federal Tribunal—Organization of the Swiss Court System, Jurisdiction of the Federal Tribunal, The Federal Tribunal and Judicial Review,

Cantons- Administration of cantons, Districts and Communes method of Direct democracy in Swiss Constitution- Primary Assemblies.

Referendum and Initiative, merits and demerits of Referendum and Initiative.

**BOOKS RECOMMENDED:**

|                     |                                                                   |
|---------------------|-------------------------------------------------------------------|
| Beckmann, George M  | The making of the Meiji Constitution.<br>(Lawrence, 1957)         |
| Cabinet Secretariat | The Constitution of Japan (Tokyo, 1947)                           |
| Fujisawa, F.        | : The Recent Aims and Political Development of Japan              |
| Gubbins, J.H.       | : The Making of modern Japan (London, 1922)                       |
| Ike, N.             | The Beginning of Political Democracy in Japan<br>Baltimore, 1950) |
| Butty N.            | : Parliamentary Democracy in Japan                                |
| Kapoor A.C.         | : Selected Constitutions                                          |
| Hughes              | : The Federal Constitution of Switzerland                         |
| Rao B.S.            | : Selected Constitution of the World                              |
| Basu                | : Selected Constitution of the World                              |
| डॉ. वी. पी. सिंह:   | विश्व के प्रमुख संविधान                                           |
| डॉ. ओ पी. नागपाल    | जापान, आस्ट्रेलिया और नेपाल का संविधान                            |

**GROUP - I**  
**CONSTITUTIONAL AND ADMINISTRATIVE LAW**

**FOURTH SEMESTER**

**PAPER - I (PAPER CODE 117)**

## LAW AND SOCIAL TRANSFORMATION IN INDIA

### Unit I-

#### 1. LAW AND SOCIAL CHANGE

Law as an instrument of social change.

Law as the product of traditions and culture. Criticism and evaluation in the light of colonization and the introduction of common law system and institution in India and its impact on further development of law and legal institutions in India.

#### 2. RELIGION AND THE LAW

Religion as a divisive factor.

Secularism as a solution to the problem.

Reform of the law on secular lines : problems

Freedom of religion and non-discrimination on the basis of religion.

Religious minorities and the law.

### Unit II

#### 3. LANGUAGE AND THE LAW

Language as a divisive factor: formation for linguistic states.

Constitutional guarantees to linguistic minorities.

Language policy and the Constitution: Official language; multi-language system.

Non-discrimination on the ground of language.

#### 4. COMMUNITY AND THE LAW

Caste as a divisive factor.

Non-discrimination on the ground of caste.

Acceptance of caste as a factor to undo past injustices.

Protective discrimination: Scheduled castes, tribes and backward classes.

Reservations; Statutory Commissions, Statutory provisions.

### Unit III

#### 5. REGIONALISM AND THE LAW

Regionalism as a divisive factor.

Concept of India as one unit

Right of movement, residence and business; impassibility of state or regional barriers.

Equality in matters of employment: the slogan "Sons of the soil" and its practice.

Admission to educational institutions: preference to residents of a state.

## 6. WOMEN AND THE LAW

Crimes against women.

Gender injustice and its various forms.

Women's Commission.

Empowerment of women: Constitutional and other legal provisions.

### Unit IV

## 7. CHILDREN AND THE LAW

Child labour.

Sexual exploitation.

Adoption and related problems.

Children and education.

## 8. ALTERNATIVE APPROACHES TO LAW

The jurisprudence of Sarvodaya- Gandhiji, Vinoba Bhave; Jayaprakash Narayan- Surrender of dacoits; concept of grama nyayalayas.

Socialist thought on law and justice: An enquiry through constitutional debates on the right to property.

Indian Marxist critique of law and justice. Naxalite movement: causes and cure.

### Unit V--

## 9. MODERNISATION AND THE LAW

Modernization as a value: Constitutional perspectives reflected in the fundamental duties.

Modernization of social institutions through law.

Reform of family law.

Agrarian reform- Industrialization of agriculture.

Industrial reform: Free enterprise Vs. State regulation Industrialization Vs. environmental protection.

Reform of court process.

Criminal law: Plea bargaining; compounding and payment of compensation to victims.

Civil law: (ADR) Confrontation Vs. consensus; mediation and conciliation.; Lok adalats.

Prison reforms.  
Democratic e centralization and local self-government.

## BOOKS RECOMMENDED

- Marc Galanter : Law and Society in Modern India (1997) Oxford  
 Robert Lingat : The Classical Law Of India (1998) Oxford  
 U. Baxi : The Crisis Of the Indian Legal System (1982), Vikas, New Delhi  
 U. Baxi : Law and Poverty Critical Essay. (1988) Tripathi, Bombay  
 Manushi : A Journal about Women and Society.  
 Duncan Derret : The State , Religion and Law in India (1999) Oxford  
 H.M. Seervai : Constitutional Law of India (1996) Tripathi  
 D.D. Basu : Shorter Constitution Of India (1996) Prentice- Hall of India (P) ltd  
 Sunil Deshta and Kiran Deshta : Law and Mernace of Child Labour (2000)  
 Armol Publications Delhi.  
 Savitri Gunasekhare : Children, Law and Justice (1997) Sage  
 Indian Law Institute, Law and Social Change: Indo American Reflections.  
 Tripathi(1988)  
 J.B.Kripalani, Gandhi : His life and Thought,(1970) Ministry of Information and  
 Brodcasting, Government of India  
 M.P.Jain, : Outline of Legal History,(1993), Tripathi, Bombay.  
 Agens, Flavia, Law and Gender Inequality: The Position of Women's Rights in India  
 (1999), Oxford

### PAPER -- II (PAPER CODE 118)

### ADMINISTRATIVE LAW (U.K U.S.A. FRANCE AND INDIA)

#### Unit-I

Growth and Development of Administrative law, Concept, Nature, Scope and Definitions of Administrative law, Sources of Administrative Law  
 Rule of Law-Development in UK, USA, France and India, Meaning and present position of Rule of Law  
 Separation of Powers-Development, Meaning and present  
 Position of Separation of Powers in UK, USA, France and India Droit Administratif

## Unit-II

Classification of Functions-Tripartite Functions of Administration  
 Delegated Legislation- Meaning, Nature and purpose of Delegated Legislation, Forms and Type of Delegated Legislation, Factors leading to the growth of Delegated legislation, Constitutionality of Delegated Legislation in UK, USA, France and India, Limits of Delegated Legislation, Control over Delegated Legislation in UK. USA, France and India, Sub-delegation and Administrative Directions

## Unit-III

Administrative Adjudication and Administrative Tribunals—Growth of Administrative Tribunals in UK, USA, France, and India, Working of Administrative Tribunals, Administrative Tribunals and Judicial Review  
 Natural Justice—Concept and Definition , Principles of Natural Justice, Application of Natural Justice in UK, USA, France and India, Exceptions of the Principles of Natural Justice, Effect of Failure of Natural Justice

## Unit-IV

Judicial Control of Administrative Actions through Writs-Need for Judicial Control, Position of Judicial Control of Administrative Actions in UK, USA, France and India, Grounds of Judicial Review, Limits of Judicial Review, Exclusion of Judicial Review, Public Interest Litigation  
 Judicial Control of Administrative Actions(Remedies through ordinary Law) in UK, USA, France and India, Declaratory Action, Injunction and Action for Damages Judicial Review of Administrative Discretion

## Unit-V

The Ombudsman- History, Development and Recent position in different Countries, The Lokpal Lokayukta, and Commissions of Inquiry.

Government Privileges and Immunities in Legal Proceedings, Doctrine of Estoppels and Waiver  
Liability of the State in UK, USA, France and India, Act of State, Public Corporations and Regulatory Bodies

Note--: Following Acts shall also be deemed to be included in the Units of this paper.

- (1) Federal Administrative Procedure Act, 1946
- (2) Federal Tort Claim Act, 1945
- (3) Freedom Of Information Act, 1966
- (4) Tribunals & Inquiries Act, 1992
- (5) The Crown Proceedings Act, 1947
- (6) Parliamentary Commissioners Act, 1967
- (7) Administrative Tribunal Act, 1985
- (8) The Lokpal & Lokayukta Bill, 2011

### Books Recommended

- Rebson : Justice And administrative Law
- Griffith and Street: Principles of Administrative law.
- Wade W.R.H. : Administrative Law
- Schwartz B : American Administrative Law
- De Smith S.A. : Judicial Review And Administrative Action
- Allen C.K. : Law and order
- Basu : Comparative Administrative Law
- Prasad : Administrative Tribunal in Action
- Jain&Jain : Principles of Administrative Law
- I.L.I. : Cases and material on Administrative Law in India
- Nair : Parliamentary control of Administrative Action
- Flaukes : Introduction of administrative Law
- Schwartz : Legal control of Government Administration in Britain and the United States
- Wyner : Executive Ombudsman in U.S.A.
- Davis k.G. : Administrative Law Text
- Davis K.G. : Administrative Law Cases.



- Brown and Garner: French Administrative Law.  
 Bowatt : Ombudsman  
 Street : Justice in Welfare States.  
 Ramchandra V. : Administrative Law.  
 Fazal M.A. : Comparative Administrative Law of  
 UK, USA, India and France  
 Laffe : Administrative Law cases and  
 Materials  
 Markose A.T. : Judicial Control of Legislative action  
 In India  
  
 Sathe : Administrative Law in India.  
 Jain : Administrative Law in India  
 Indian Law Institute: Delegated Legislation in India.

### PAPER -- III (PAPER CODE 119)

### DISSERTATION

Dissertation shall be compulsory for each student Topics of the dissertation shall be allotted by the Head of the Department. This paper contains 100 marks for script writing .

**PAPER – IV (PAPER CODE 120)****Viva-Voce**

Each student shall also appear for a Viva-Voce examination of 100 marks. This will be held before a Board of three examiners of whom two will be external and one internal. The absence of one external examiner may, however, be condoned by the Kulpati, if it is caused due to unavoidable circumstances, ordinarily, the head of Department of Law will be the Internal examiner.

**Group- II  
CRIMES AND TORTS****PAPER – I (PAPER CODE 113)****CRIMINOLOGY****Unit-I**

Definition of Criminology, Crime and Criminal Law, their theory and significance, Development of criminal law and criminology in India. Study of crime as behavior.

### Unit-II

Schools of Criminology:- Pre-classical, Classical and Neo-classical and their theories Baccaria and Bentham, The Positive school and their contributors C. Lambroso, R Garafellow and E Ferricriews of other schools ie. cartographer sociological sociologist and clinical and multifactor's etc. and their contributors.

### Unit-III

Types of Crimes and Criminals: Habitual, Sexual, Professional, Organized and white-collar. Terrorism Marginal and Victimless crimes, Modern and International crimes such as -cyber crime, Human organ crime, Hijacking, Feticide and Nuclear theft, crime against Women- Murder, Rape, Dowry-death, Torture, Kidnapping, abduction etc.

### Unit-IV


Cause of Crimes:- Individual, Mental, Physical, Economical, Psychological and Religious, Sexual, Harmonial abreoviability as a cause of crime Social disorganization, movibility, Theory of Differentiate association. Anomie, Labeling, Gang delinquency, Effect mass media and role of state and politician as crime causation.

### Unit-V

Juvenile Delinquency:- Its causes, Economic, Pressing, Gang culture, Differential association, Vagrancy, Truancy, Recidivism, Drug addiction, Tract went of Juvenile and their signification: Borshu system observation home Reformatories after care organization and Provision of the Juvenile Justice(care and protection of children) Act 2000.

### Books Recommended

|                      |                                 |
|----------------------|---------------------------------|
| Sutherland & crassly | - Criminology                   |
| Taft & England       | - Criminology                   |
| Reckless W.          | - Criminology The Crime Problem |
| Vole G.B.            | - Theoretical Criminology       |
| Mannheim             | - Compensation criminology      |
| Lolika Asrkar        | - Crime & Woman                 |
| Upendra Baxi         | - Law & Poverty                 |
| Pillai S.            | - Theory of Criminology         |
| Cycil Burt           | - Young Delinquents             |
| Gilliam J.L.         | - Criminology Penology          |

  
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|                     |                                     |
|---------------------|-------------------------------------|
| Gluck               | - Delenquanti in working            |
| A.Siddique          | - Criminology Problem & Perspective |
| David Abhahanson    | - Crime & Human Maid                |
| Cove Land           | - The Emitters of Criminology       |
| Katherine S William | - Text Book of Criminology          |
| Leon Radzeinoartz   | - Ideology of Crime                 |
| W. Reckless         | -The Prevention of Juvenile         |
| Delinquency         |                                     |
| P.H.Kohen           | - Juvenile Offenders & The Law      |
| K.S.Shukla          | - Adolescent Offenders              |
| ILI (Delhi)         | - Habitual Offenders & The Law      |
| E.Sutherland        | - White Collar Crime                |
| M.Ponnanian         | - Criminology and Penology          |

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## PAPER -- II (PAPER CODE 114)

### PENOLOGY

#### Unit-I

Concept of Punishment: Its history and development Religious and Punishment: Types and Forms of Punish and as Ancient, medieval and Modern India. Its classification whether death penalty is necessary? Its merits and Demerits.

**Unit-II**

Theories of Punishments: Deterrence, Retributive, Expiation, Reprobation, Probation, Classical and utilitarian view on punishment: Punishment advantages and disadvantages: critical analysis in the righting in purpose scale and provision of criminal law and pardon, social necessity of law and order.

**Unit-III**

History of Penal system in development in India, Types of Prisons and Prisoners Basic principles for the treatment of prisoners National and International Rights of Prisoners under our Constitution and the Prisoners Act 1900.

**Unit-IV**

Probation and Parole: Its nature, origin and advantages, The Provision of Probation of offenders Act 1958, Comparison between Probation and parole. Its effects in Rehabilitation of Prisoners.

**Unit-V**

Power and jurisdiction of Police under Cr.p.c U/s 302, 55, 161, 36,156,160,174,102 and 166 Criminal Justice Process, Organize ahead structure of Jail and Police in India Provision relating to custodial death, torture etc.

**Books Recommended**

|                    |                                         |
|--------------------|-----------------------------------------|
| P.K.sen            | - Penology old and New                  |
| Gillian JL         | - Criminology and Penology              |
| Bhattacharya       | - Prisons                               |
| Flexvor & Baldwani | - Juvenile court and Probation          |
| M.Ponnanian        | - Criminology and Penology              |
| J.C.Chaturvedi     | - Penology &<br>Criminal Procedure Code |

The Books recommended for code No.113 are also relevant and useful.

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**PAPER – III (PAPER CODE 115)****GENERAL PRINCIPLES OF CRIMINAL LAW AND IPC****Unit-I**

Concept of Criminal liability: Its history, nature and scope in Ancient, medieval and modern context codification of criminal law in India and of Indian Penal Code of 1860,

### Unit-II

Sections relating to General exception and punishment (sec 1-75 IPC) General explanation (sec 76-106 IPC) and Abatement (sec 107-120 IPC) Criminal conspiracy (sec 120A-120B IPC) Offences against the state and public tranquility sedition (sec 124A IPC) Unlawful assembly, Rioting and Affray (Sec 141,146 & 159)

### Unit-III

Giving false evidence, fabricating false evidence and other offences against public justice health safety and morals (Sec 191-229) provisions relating to public nuisance, obscenity (Sec 268-294) offences relating to body: Specially Culpable homicide, murder, Dowry death, Suicide, Miscarriage, Hurt, Grievous hurt, Wrongful restraint and Wrongful confinement, Force, criminal force, Assault, Kidnapping, Abduction (sec 299-374)

### Unit-IV

Sexual offences (sec375-377), Offences relating to property especially – Theft (sec 378), Extortion (sec 383), Robbery (sec 390), Dacoit (sec 391), Criminal misappropriation of property (sec 403-404), Criminal Breach of Trust (sec 405 -409), stolen property (sec 410-414), Cheating, mischief and criminal trespass ( sec 415,425,441), House breaking (sec 445), Offence relating to documents (sec 463-477A)

### Unit-V

Offences relating to property marks and currency notes (479-489E) Offences relating to marriage (sec 493-498A), Defamation (sec 499-502), Criminal intimidation: Insult and Annoyance (sec 503- 510) and attempt to commit offences (sec 511)

### Books Recommended

|                    |                                 |
|--------------------|---------------------------------|
| P.K.sen            | - Penology old and New          |
| Gillian JL         | - Criminology and Penology      |
| Bhattacharya       | - Prisons                       |
| Flexvor & Baldwani | - Juvenile court and Probation  |
| M.Ponnanian        | - Criminology and Penology      |
| J.C.Chaturvedi     | - Penology & Criminal Procedure |

**PAPER – IV (PAPER CODE 116)****LAW OF EVIDENCE****Unit-I**

Introduction and History of Evidence, Rule of Evidence in Hindu and Muslim Law, Changes in British period, Interpretation clause of Indian Evidence Act, May Presume, Shall Presume and conclusive proof.

**Unit-II**

Relevancy of facts in various circumstances (sec 4-16) Admission; its types and provisions relating to it, Provision relating to confession (sec 24-31) and statement by person who cannot be called on witness (sec 32-33) position of statement made under special circumstances and how such of a statement to be proved (sec 34-39) Relevancy of the judgment of the court and opinion of third person (sec 40- 44 & 45-51) and provision relating to character of person (sec 52-55)

**Unit-III**

Fact which had not be proved; oral and documentary evidence (sec 56- 78) Presumption as the document (sec 79-90) and relating to the exclusion of oral by documentary evidence (sec 91-100)

**Unit-IV**

Burden of proof relating to death, ownership, legitimacy, suicide and dowry death and their presumptions (Sec 101- 114A) Section relating to dumb and other types of witness (sec 118 – 134)

**Unit-V**

Sections relating to the examination of witness; Examination in chief, cross and Re –examination, Leading questions and other provision of chapter x and chapter xi (sec 135- 167) of Indian Evidence Act.

**Books Recommended**

|                    |                                         |
|--------------------|-----------------------------------------|
| P.K.sen            | - Penology old and New                  |
| Gillian JL         | - Criminology and Penology              |
| Bhattacharya       | - Prisons                               |
| Flexvor & Baldwani | - Juvenile court and Probation          |
| M.Ponnanian        | - Criminology and Penology              |
| J.C.Chaturvedi     | - Penology &<br>Criminal Procedure Code |

The Books recommended for code No.113 are also relevant and useful.

  
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## FOURTH SEMESTER

### PAPER – I (PAPER CODE 121)

#### LAW OF TORTS – GENERAL PRINCIPLES

##### Unit-I

Law of Torts: Its introduction definition and classification history and development its comparison crime, breach of contract and breach of trust Essential of tarts; Acts and omission and legal damages Damnum sine injury and injury sine damnum

##### Unit-II

Foundation of tortuous liability: Mental elements Fault as a basis of liability various torts- Test of proximity Directness and test of forcibility principles for awards of damages Position of contributory negligence and intervention of third party nouns acts intervenes.

##### Unit-III


General defense in action of torts- Private defenses necessity, invisible accident Act of God, Mistake statutory authority and consent. Remedies in action of torts- judicial and extra judicial remedies. Discharge of torts: waiver, accord and satisfaction Release of Acquiescence Re judicator and statute of limitation Assignment of right of action in torts and death of party and its effect on tortuous actions.

##### Unit-IV

Capacity to sue or be sued in tort: Position of unborn child, Minor Husband and wife, Lunatic, insolvent, convicts, judicial affair, alien enemy Trade union corporation Foreign save reign state and its executed authority, Liability of state for the tortuous liability acts and his servant and foreign tab joint and servant tort feaser. Liability for injury caused by animal (scanter rule)

##### Unit-V

General principle s for occupiers liability for dangerous land precuns principles relating to product liability ( Donough v Stevenson Rule) Strict Liability: Ryland and flexure rule Doctrine of alternative damages.

  
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**PAPER –II (PAPER CODE 122)**  
**Specific Torts- Special Topics**  
**Negligence and Vicarious Liability**

**Unit-I**

Injurious to the person and wrongs relating to domestic relations and with reacting to every interracial night. Worship and dignity. International wrong doing- intimidation, conspiracy and utter rorener to the hade or occupation by under fall areas.

**Unit-II**

Wrongs to movable poverty:- Trespass to goods concerning it kinds detention wrongs of immovable property. Trespars, its types remedies deference and dadoes; Injuries to reversion and waste, slender of goods Maintenance and champerty wrongs to incorporeal personal property.

**Unit-III**

Interference with contractual and business relation Malicious Proceedings: Malicious persecution Abuse of legal process. Misfeasance in public office Noisier.

**Unit-IV**

Negligence as a Torts- Its definition and nature Agential ingredients for actionable negligence requirement of duty in the case of negligence standard of duty to take care the breach of duty casual relation bettor them. Liability for the negligence of the occupiers of land and prentices to warless various pesson. Negligence of person processing greater skill and spieled rate of profession. Negbgcue by the keepers of diagram anural and dangerous good or chattel contributory Negligence Reach of statutory duty and prudent of proof in action of negligence.

**Unit-V**

Vicarious liability - liability for the wrongs cancelled by others. Liability by relation and liability by ratification Relationship between mascara and iernal nester and independent contracting and praieipal and augural. Baric of vicarious liability course of reemployment . Lily by for the act of driers Deviation and Detour, Doe rime of Corazon employment libeling of hospital authority for the negligent act of doctor and murex and other staff.

**Books Recommended**

Ramaswamy Iyar

- The Law of Torts

**PAPER – III (PAPER CODE 123)****DISSERTATION**

Dissertation shall be compulsory for each student Topics of the dissertation shall be allotted by the Head of the Department. This paper contains 100 marks for script writing .

**PAPER – IV (PAPER CODE 124)****Viva-Voce**

Each student shall also appear for a Viva-Voce examination of 100 marks. This will be held before a Board of three examiners of whom two will be external and one internal. The absence of one external examiner may, however, be condoned by the Kulpati, if it is caused due to unavoidable circumstances, ordinarily, the head of Department of Law will be the Internal examiner.


SCHOOL OF STUDIES IN LAW  
PT. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR

MASTER OF PHILOSOPHY  
M. PHIL (LAW)  
(REVISED ORDINANCE-52)

1. This is a one year full time course run by S.O.S. in Law.
2. There shall be five papers in this course. The name of the papers, its components, division of marks with awarding scheme is as follows -

**Allotment of Marks**

| <u>Sr. No.</u> | <u>Name of Papers</u>                      | <u>Marks in Theory Paper</u> |
|----------------|--------------------------------------------|------------------------------|
| 1.             | Research & Teaching methodology            | 100                          |
| 2.             | Human Rights & Constitutional Law          | 100                          |
| 3.             | Jurisprudence                              | 100                          |
| Total Marks    |                                            | 300                          |
| 4.             | Seminar Based on Theory                    | 50                           |
| 5.             | Dissertation Seminar based on Dissertation | 50                           |
|                | Script Writing                             | 75                           |
|                | Viva-voce                                  | 25                           |
| Total Marks    |                                            | 200                          |
| Grand Total    |                                            | 500                          |

  
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- 6 The student shall participate and give his/her presentation based on theory of 50 marks. The assessment of the seminar shall be done by faculty members.
- 7 The evaluation of the seminar on the dissertation of 50 marks shall be done by in presence of Supervisor and other regular faculty member of department.
- 8 A candidate will be required to submit three typed copies of his/her Dissertation within a month after the completion of theory examination. The dissertation shall be valued by the external valuer, while vivo-voce will be conducted by both internal and external examiner and the HOD shall be the internal examiner.
- 9 In matter of admission, enrolment, examination and in all other matters not provided for by this scheme of examination, the M. Phil course will be governed by the general provisions of the relevant Ordinances which in enforce.

**DETAIL SYLLABUS FOR M. Phil LAW**

**PAPER - I**

**RESEARCH AND TEACHING METHODOLOGY**

**UNIT - 1**

OBJECTIVE OF LEGAL EDUCATION, LECTURE METHOD OF TEACHING, MERITS AND DEMERITS, THE PROBLEM METHOD, DISCUSSION METHOD AND ITS SUITABILITY AT POSTGRADUATE LEGAL TEACHING.

**UNIT - 2**

THE SEMINAR METHOD OF TEACHING, EXAMINATION SYSTEM AND PROBLEMS IN EVALUATION-EXTERNAL AND INTERNAL ASSESSMENT, STUDENTS PARTICIPATION IN LAWSCHOOL PROGRAMMES.

**UNIT - 3**

RESEARCH METHODS - SOCIO LEGAL RESEARCH, DOCTRINAL AND NON DOCTRINAL, INDUCTION AND DEDUCTION.

**UNIT - 4**

RESEARCH PROBLEM - SURVEY OF AVAILABLE LITERATURE AND BIBLIOGRAPHICAL RESEARCH, LEGISLATIVE MATERIALS INCLUDING SUBORDINATE LEGISLATION, NOTIFICATION AND POLICY STATEMENT, JURISTIC WRITINGS.

**UNIT - 5**

PREPARATION OF RESEARCH DESIGN - FORMULATION OF RESEARCH PROBLEM, METHODOLOGY OF COLLECTING DATA, USE OF HISTORICAL AND COMPARATIVE RESEARCH MATERIALS, USE OF OBSERVATION STUDIES, USE OF QUESTIONNAIRES AND INTERVIEWS, USE OF CASE STUDIES, JURIMETRICS, ANALYSIS OF DATA.

**Reference books:**

1. Methodology and Techniques - By T.S. Bhandarkars & T.S. Milkinson
2. Methods in Social Research - By William J. Goode & Paul K. Hatt
3. Development of Research Tools - By N.C. Gautham
4. Designs of Social Research - By D.K. Lal Das
5. Doing Quantitative Research in the Social Sciences - By Thomas R. Black
6. Research Methods in behavioral sciences - By S.M. Mosil
7. Legal Research Methodology - By Dr. H.N. Tiwari
8. Legal Research - William P. Stutsky
9. Legal Research Methodology - By Shilpa Agrawal
10. Legal Reason-The use of Analogy in legal Argument - By Lloyd L. Weiered
11. Learning the Law - By Granville Williams
12. Legal Education & Profession in India - By T. S. Mehta & Shasma Gupta
13. Social Mission of Law - By V. R. Krishnaayyar
14. Legal Education in a Changing world - By International Legal Centre, New York
15. A Guide to Legal Research - By Ewinc currency
16. Legal Research Methodology - Dr. S.R. Myneli
17. An Introduction to Legal Argument - By Edward Lewi
18. Legal Research Methodology -(In Hindi) By H.N.Giri

PAPER - 2  
HUMAN RIGHTS AND CONSTITUTIONAL LAW

UNIT - 1

DEFINITION, NATURE, ORIGIN AND DEVELOPMENT OF HUMAN RIGHTS - SOME BASIC HUMAN RIGHTS ISSUES, EVOLUTION OF THE CONCEPT OF HUMAN RIGHTS, CLASSIFICATION OF HUMAN RIGHTS, THEORIES OF HUMAN RIGHTS.

UNIT - 2

INTERNATIONAL LAW AND HUMAN RIGHTS - HUMAN RIGHTS AND INTERNATIONAL RELATIONS, DECOLONIZATION, SOVEREIGNTY AND HUMAN RIGHTS, UNITED NATIONS AND HUMAN RIGHTS.

UNIT - 3

IMPORTANT WORLD CONFERENCE AND CONVENTIONS ON HUMAN RIGHTS - INSTRUMENTS OF HUMAN RIGHTS AND COVENANTS, GENEVA CONVENTIONS OF 1949, INTERNATIONAL BILL ON HUMAN RIGHTS, GLOBAL CONSTITUTIONAL LIMITATION ON HUMAN RIGHTS.

UNIT - 4

HUMAN RIGHTS AND THE INDIAN CONSTITUTION - KINDS OF RIGHTS IN INDIA, ECONOMIC AND SOCIAL RIGHTS IN INDIA, ROLE OF JUDICIARY.

UNIT - 5

INDIAN CONSTITUTION PART III & IV.

Reference books

- 1 Human Rights & Legal Remedies - Gokulesh Sharma
- 2 Human Rights in India - Problems & Prospectives - B.P. Singh Shegal
- 3 Human Rights in India - Constitutional & Legal Provisions - M. Iqbal Singh
- 4 Human Rights in India - Nirmla
- 5 Human Rights & Social Justice - Gokulesh Sharma
- 6 Human Rights under International & Indian Law - S.K. Kapoor
- 7 Human Rights - U.N. Initiatives - Rahul Rai
- 8 Human Rights in India - Implementation & violation - G.S. Bajwa
- 9 Constitutional Law of India - P.N. Baxi
- 10 International Law - S.K. Kapoor
- 11 Constitutional Law of India - Anand
- 12 Constitutional Law of India - H.M. Seervai
- 13 Constitution of India - V.N. Shukla
- 14 Basic Documents on Human Rights - Brownlie Ian
- 15 Human Rights - International Documents (3 vols) - Joylee J.A.
- 16 Human Rights in International Law - Meron I.
- 17 Comparative Federalism - Basu
- 18 Selected Constitutions - Kapoor A.C.
- 19 Comparative Study of Six Living Constitutions - Gupta
- 20 Selected Constitution of the World - Basu
- 21 Comparative Constitutional Law - Basu
- 22 Federalism - K.C. Wheccere
- 23 Indian Constitutional Law (2 Vol.) - Dr. M.P. Jain

JURISPRUDENCE

UNIT - 1  
CRITICAL SURVEY OF LEGAL THEORIES - NATURAL LAW AND THE SEARCH FOR ABSOLUTE VALUES, THE PROBLEM OF NATURAL LAW, ANCIENT THEORIES, REASONS AND THE LAW OF NATURE, NATURAL LAW AND SOCIAL CONTRACT (GROTIUS, HOBBS, LOCKE, ROUSSEAU), REVIVAL OF NATURAL LAW THEORIES.

UNIT - 2  
PHILOSOPHICAL IDEALISM AND THE PROBLEM OF JUSTICE - GERMAN TRANSCENDENTAL IDEALISM, (KANT, FICHTL, HEGEL), NEO KANTIAN PHILOSOPHY AND SCIENTIFIC LEGAL IDEALISM, MODERN VALUE PHILOSOPHY AND LAW.

UNIT - 3  
THE IMPACT OF SOCIAL DEVELOPMENT ON LEGAL THEORIES, HISTORICAL EVOLUTION AS A GUIDE TO LEGAL THOUGHT, BIOLOGY, SOCIETY AND LEGAL EVOLUTION, MODERN SOCIOLOGICAL THEORIES OF LAW.

UNIT - 4  
POSITIVISM AND LEGAL THEORIES - KILSON'S PURE THEORY OF LAW, UTILITARIANISM, THE JURISPRUDENCE OF INTERESTS AND LEGAL IDEALISM.

UNIT - 5  
LEGAL THEORY AND CONTEMPORARY PROBLEMS - LEGAL THEORY OF MODERN POLITICAL MOMENTS, SOCIO-ISTIC AND COMMUNIST THEORIES OF LAW, NEO-SCHOLASTIC DOCTRINE AND MODERN CATHOLIC LEGAL PHILOSOPHY.

Reference book

1. Out lines of Ancient Hindu Jurisprudence - By M.S. Pradit
2. Selmond on Jurisprudence - P.J. Fitzgerald
3. Jurisprudence - J.G. Riddall
4. A Text book of Jurisprudence - G.W. Paton.
5. Jurisprudence and legal theory - Shambhoo Dayal
6. Jurisprudence - Wayne Morrison
7. Fundamental of Jurisprudence - S.N. Dhyani
8. Jurisprudence- Dias
9. Vidhisashtra Ke Mool Sidhanti (In Hindi)-Dr. Anirudh Prasad
10. Jurisprudence-Edgarboden Heimer
11. Legal Theory -Friedman

PAPER-4

SEMINAR BASED ON THEORY (50 MARKS)

This paper is divided into three parts

|         |                                                                   |          |
|---------|-------------------------------------------------------------------|----------|
| Paper-1 | 02. Seminar on the paper-I Research and teaching methodology      | 20 marks |
| Paper-2 | 02. Seminar on the paper-II Human rights and the Constitution law | 20 marks |
| Paper-3 | 01. Seminar on the paper-III Jurisprudence                        | 10 marks |

Total - 50 marks

The student shall participate and give his/her presentation in 05 seminars, 10 marks each before the student of the departments and faculty members as prescribed above. The topic of each seminar shall be assigned by the teacher concerned of the paper. The evaluation of the seminars based on theory will be done internally by the supervisor and the other faculty members.

The records of the marks of the seminar of each student shall be maintained by the department and sent to the university at the end of the session.



PAPER-5  
DISSERTATION

This paper is divided into three parts

|         |                               |                  |
|---------|-------------------------------|------------------|
| Part-1. | Seminar based on Dissertation | 50 marks         |
| Part-2. | Scriptwriting                 | 75 marks         |
| Part-3. | Viva-voce                     | 25 marks         |
|         |                               | Total- 150 marks |

In Part-I of this paper the student shall participate and give his/her presentation on seminars based on dissertation of 50 marks. The evaluation of the seminar on the dissertation of 50 marks will be done in presence of the supervisor and other teacher of the department.

In Part-II of this paper the student will be required to write a dissertation on assigned topic under the supervision of the supervisor. A supervisor shall not have at any given point of time more than five M.phil students. A candidate will be required to submit three typed copies of his/her dissertation within a month after the completion of theory examination. The dissertation shall be valued by external examiner only.

In Part-III of this paper will be viva-voce of 25 marks which shall be valued by internal and external examiners and the Head of the Department shall be the internal examiner.

The total marks of the seminar based on the Dissertation, script writing and viva-voce shall be computed along with the marks of the 3 papers (marks of the theory papers and the marks of the seminar).

APPENDIX - 1

DECLARATION BY CANDIDATE (Clause 8 of the Ordinance - 52)


I declare that the thesis entitled .....  
.....  
is my own work conducted under the supervision of Dr. ....  
(Supervisor / Co-supervisor) at ..... (Centre)

I further declare that to the best of my knowledge the thesis/ dissertation does not contain any part of any work, which has been submitted for the award of any degree either in this University or in any other University/ Deemed university without proper citation.

Signature of the Supervisor

Signature of the Candidate



  
**HEAD**  
School of Studies in Law  
Pt. Ravishankar Shukla University  
RAIPUR (C.G.) 492010

APPENDIX - 2

CERTIFICATE BY THE SUPERVISOR/ CO-SUPERVISORS  
(Clause 8 of the Ordinance - 52)

This is to certify that the work entitled .....  
..... is a piece of research work  
done by Shri / Smt/ Ku. ....  
under my (our) guidance and supervision for the degree of Master of Philosophy  
of Pt. Ravishankar Shukla University, Chhattisgarh, India.

To the best of my knowledge and belief this thesis

- [1] Embodies the work of the candidate himself/ herself.
- [2] Has duly been completed.
- [3] Fulfills the requirements of the Ordinance relating to the M.Phil. degree of the University; and
- [4] Is up to the standard both in respect of contents and language for being referred to the examiner.

Signature of the Co-Supervisor(s)

Signature of the Supervisor

Forwarded

Signature of the HoD, School of Studies/ Research Center

*[Handwritten signature]*

*[Handwritten signature]* - 6-18  
**HEAD**  
 School of Studies in Law  
 Pt. Ravishankar Shukla University  
 RAIPUR (C.G.) 492010  
*[Handwritten signature]*  
 6-6-18



# SYLLABUS

2015-2016



PT. RAVISHANKAR SHUKLA UNIVERSITY  
RAIPUR  
CHHATTISGARH

Pt. RAVISHANKAR SHUKLA UNIVERSITY RAIPUR (C.G.)

## COURSE WORK FOR Ph.D. IN LAW

2015-16 onwards

|                    |                                             |                                |    |     |
|--------------------|---------------------------------------------|--------------------------------|----|-----|
| PAPER-1            | Research Methodology & Computer Application |                                |    | 100 |
| PAPER-2            | Part I                                      | Review of concerned Literature | 50 | 100 |
|                    | Part II                                     | Synopsis framing               | 25 |     |
|                    | Part III                                    | (a) Seminar                    | 15 |     |
| (b) Project Report |                                             | 10                             |    |     |
| Total (MARKS)      |                                             |                                |    | 200 |

### **PAPER-1 (100 Marks)**

#### Research Methodology and Computer Application (100 Marks)

#### **UNIT-I**

Meaning of Research, Need for Legal Research, Criteria for Good Research, Motivation and Approach, Methods for Legal Research- Doctrinal-Non-Doctrinal. Induction and Deduction, Empirical, Sampling and Questionary writing.

#### **UNIT-II**

Formulation of Research Problem, Hypothesis, Data Collection: – Methods, tools & Techniques, Data Processing and Analysis.

#### **UNIT-III**

Preparation of Research Design, Use of Historical and Comparative Research, Use of Observative Studies, Use of Interview and Case studies, Jurimetrics Analysis of Data0

#### **UNIT-IV**

Computer Application in Legal Research, Statistical Tools, Statistical Software, Data entry and command for analysis.

#### **UNIT-V**

Thesis writing and its pattern.

#### **Reference Books:-**

1. Legal Research-William P. Statesky.
2. A Guide to Legal Research-Erwine Sursency.
3. An Introduction to Legal Arguments-By Edward Lewi.
4. Methodology & Techniques- Ts, Bodenkr & Mllinson
5. Methods in Social Research- By William J. Goode & Paul K. Hatt.
6. Development of Research Tools- N.C.Gautewan.
7. Legal Research Methodology- S.R. Myneni Allahabad Law Agency

## 8. Legal Research Methodology- H.N. Tiwari

### **PAPER-2 (100 Marks)**

#### PART-I

Review of concerned literature (50 marks)

The candidate shall review minimum Twenty (20) research articles published in standard referred journals of the subject. After reviewing the research articles, the candidates shall submit a summary of his revision in articles with his opinion on the articles within two months from the beginning of the course.

#### PART-II

The candidate shall prepare a synopsis at the help of concerned literature on the topic in which he/she is writing to do research. The synopsis includes

- (I) Research Topic
- (II) Review of literature
- (III) Gapes in earlier studies
- (IV) Objectives
- (V) Hypothesis
- (VI) Methodology
- (VII) Plan of study

#### PART-III

(a) Seminar-(15 Marks)

The candidate presents a seminar on the basis of Part I before the faculty members.

(b) Project Report-(10 Marks)

The candidate shall submit a report on the basis of seminar

### **Evaluation procedure:-**

The respective DRC will conduct the evaluation at the constitutional / departmental unit. 50% marks in necessary in each paper of pass this course work. Result of the candidates shall be declared by the university after adding the marks of both the papers.

**SYLLABUS OF LAW**  
**FOR**  
**(CHOICE BASED CREDIT SYSTEM)**

**UNIT-I**

- ✚ **General Introduction of legal system:** History of Indian Legal Institutions in ancient medieval and modern period. Law as a means of social control & welfare of the citizens. It's sources, definition & scope in Dharmashastras & other ancient Indian literature

**UNIT-II**

- ✚ **Jurisprudence & classification of law :** Definition of Laws, their kinds, theories of their origins & views of school & their thinkers such as analytical, historical, philosophical, social, Psychological and Realist School of Laws. What is Jurisprudence, its definition & scope of studies, possession, title ownership rights and other concepts relating to law. Their Universality in Judicial System

**UNIT-III**

- ✚ **Constitutional and Administrative Law:**  
**Indian Constitution-** Its Preamble, Fundamental Rights, Directive Principles of State Policy, Principle of its interpretation. President & Governors, their appoint, powers & duties. Position and Powers of Legislature, Executive & Judiciary. Parliamentary privileges and distribution of powers amending process & emergency provisions.  
**Administrative Law-** Principles of Natural Justice, Delegated Legislation & their Constitutionality, Judicial Review of Administrative Action, Ombudsman, Lokayukt & Lokpal

**UNIT-IV**

- ✚ **Law of Crimes & Law of Torts :**  
**Law of Crimes-** General Principles of Criminal Liability, Classification of Offenses in Indian Penal Code, their Definition and Legislative Punishment, Abatement & Attempts. General Exceptions & Principles of Interpretation.  
**Law of Torts-** Definition, Nature, General Defense. Various types of Torts and their Ingredients, Remedies of Torts, Liability without Fault, Vicarious Liability & Negligence.

**UNIT-V**

- ✚ **Law of Contract and Mercantile Law:** Nature and Formation of Contract, Conditions for Valid Contract, Void, Voidable, Illegal and Unenforceable Contract. Breach of

Contract, Quasi Contract, Indemnity, Guarantee, Bailment and Agency. Sales of Goods, Partnership and Negotiable Instrument Act 1881 Arbitration and Conciliation Act 1996.

## **UNIT-VI**

- ✚ **International Law:** Nature & Definition, Relation between International and Municipal Law, Sovereignty, Recognition, Succession, Neutrality, Treaty, Law of Sea, Extradiction and Asylum. UNO and its Principal Organs, their Powers and Functions

### **List of Recommended Books**

1. Kane's Dharmashastra -Bharat Bhavan, New Delhi/Pune.
2. Jurisprudence – RWM Dias (Indian Rept.) Aditya, New Delhi
3. Indian Constitution- V. N. Shukla (EBC), Lucknow.
4. Principles of Administrative Law- M.P.Jain & M.P.Jain (Tripathy), Bombay
5. Indian Penal Code- Ratanlal Dhirajlal, (Wadhwa) , Nagpur
6. Law of Torts- Ramaswami Aiyer, (Lexus Nexus), Mumbai.
7. The Indian Contract Act 1872
8. The negotiable Instrument Act
9. The Indian Partnership Act 1932
10. The Sales of Goods Act 1930
11. The Arbitration and Conciliation Act 1996.
12. International Law-S.K.Kapoor (EBC), Lucknow.
13. Jurisprudence & Legal Theory-V.P.Mahajan (EBC) Lucknow.
14. Constitutional Law of India- J.N.Pandey (CLA) Allahabad.
15. A Study of Indian Legal Theory, S.N. Dayani ( Metro Publication) New Delhi



**PT.RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR**  
**Bachelor of Library and Information Science**  
**Syllabus: 2018-2019**

| Paper | Subject                                | Internal Marks | Examination |          | Total Marks |
|-------|----------------------------------------|----------------|-------------|----------|-------------|
|       |                                        |                | Marks       | Duration |             |
| 1     | Library Organization and Management    | 20             | 80          | 3 Hrs.   | 100         |
| 2     | Library Cataloguing and Bibliography   | 20             | 80          | 3 Hrs.   | 100         |
| 3     | Reference sources and Services         | 20             | 80          | 3 Hrs.   | 100         |
| 4     | Documentation and Information Services | 20             | 80          | 3 Hrs.   | 100         |
| 5     | Computer Application in Libraries      | 20             | 80          | 3 Hrs.   | 100         |
| 6     | Library Classification(Theory)         | 20             | 80          | 3 Hrs.   | 100         |
| 7     | Library Classification(Practice)       | 20             | 80          | 3 Hrs.   | 100         |
| 8     | Library cataloguing ( Practice)        | 20             | 80          | 3 Hrs.   | 100         |
|       | <b>Total Marks</b>                     | <b>160</b>     | <b>640</b>  |          | <b>800</b>  |

## **PAPER – I LIBRARY ORGANISATION AND MANAGEMENT**

Full Marks:100 (Theory: 80, Internal Assessment: 20) Pass Marks 35%

### **UNIT-I**

- Library Organization : Meaning , importance, principles and types
- Library Committee : Definition , types and functions
- Different Library systems- their salient feature and functions
- National Libraries of India, UK and USA
- Role of libraries as Academic and social institution

### **UNIT -II**

- Ranganathan's five laws of library science and their applications
- Library legislation in India
- Library movement in India, UK and USA. NKC
- Library association / Professional organizations: their objectives and functions: UNESCO, IFLA, ALA, IASLIC,ILA

### **UNIT – III**

- Management : Definition, Components, features and principles of management
- Administration versus Organization
- Library rules and regulations.
- Scientific management
- Personnel management

### **UNIT –IV**

- Physical Environment : Basic consideration in planning of library building, furniture, fittings and equipments
- Routine procedures: Acquisition, circulation , serials control, stock verification Vs stock rectification
- Public relation and extension activities.

### **UNIT -V**

- Financial Management
- Budgeting : its concepts , types and methods
- Collection Development : Different types of selection tools and their importance
- Maintenance of library record and statistics
- Annual report
- Resource sharing

**PAPER-II LIBRARY CATALOGUING AND BIBLIOGRAPHY**  
Full Marks:100 (Theory: 80, Internal Assessment: 20) Pass Marks 35%

**UNIT-I**

- Library Catalogue: Objectives , purpose and functions
- Different between bibliography, catalogue and documentation list
- Canons and normative principles of cataloguing
- Physical and inner forms of library catalogue
- Selective and simplified cataloguing
- Descriptive cataloguing including

**UNIT-II**

- Entries-their types and functions
- Filling of entries
- Cooperative and centralized cataloguing
- Cataloguing in source and cataloguing in publication
- Comparative study of CCC and AACR-2
- Organization and management of cataloguing department

**UNIT-III**

- Subject cataloguing – meaning , purpose and objectives
- Subject Headings –Need and basic principles
- Derivation of subject headings-LCSH, Sears list of subject headings
- Chain procedures
- Study of ISBN and ISNN

**UNIT-IV**

- Bibliography – definitions , aims, need ,functions and types
- Subject bibliography
- National bibliography-need, scope and coverage
- Study of INB and BNB
- Trade bibliography
- Universal bibliography

**UNIT-V**

- Bibliography control
- Bibliography and documentation activities in U.S.A. and U.K.
- Bibliographical organizations in India and their services.

## **PAPER-III REFERENCE SOURCES AND SERVICE**

Full Marks: 100 (Theory: 80, Internal Assessment: 20) Pass Marks 35%

### **UNIT-I**

- Reference service-concept , definition and importance
- Theories and philosophy of reference service
- Kinds and nature of reference service in different types of libraries
- Short range and long range services
- Orientation of a freshman
- User education

### **UNIT-II**

- Enquiry techniques and methods of answering reference questions
- Classification of reference sources and their evaluation
- Organization and management of reference department
- Non-Documentary Sources of Information, Digital Sources

### **UNIT-III**

- Dictionary –scope , purpose ,types, uses and alternative names
- Glossary, Thesaurus, Lexicon, Concordance etc.
- Checklist for evaluation of dictionaries  
Study of-
  - (i) Random House Dictionary of English Language
  - (ii) Webster’s Third New International Dictionary of English Language
  - (iii) Oxford English Dictionary
  - (iv) Roget’s International Thesaurus
- Encyclopedias-Scope, purpose, types and importance, criteria for evaluation  
Study of-
  - (i) New Encyclopedias Britannica
  - (ii) Encyclopedia American
  - (iii) Encyclopedia of Library and Information Science
  - (iv) International Encyclopedia of Social Science and Technology
  - (v) McGraw –Hill Encyclopedia of Science and Technology
  - (vi) Van Nostrand’s Scientific Encyclopedia

## UNIT-IV

- Years Books and Almanacs – scope , definition and purpose  
Study of-
  - (i) Europa Yearbook
  - (ii) Stateman’s Yearbook
  - (iii) India: a Reference Annual
  - (iv) World Almanac and Book of Facts
- Directories –Definition, scope and types  
Study of-
  - (i) World of Learning
  - (ii) Study Abroad
  - (iii) Times of India Directory and Yearbook including Who’s Who
  - (iv) Universities Handbook, India
- Current reference sources-
  - (i) Asian recorder: a weekly digest of Asian events with index
  - (ii) Facts on file: weekly world news digests
  - (iii) Keesing’s contemporary archives

## UNIT-V

- Geographical Sources –scope and categories – Gazetteers , guide books , maps ,atlases and globes  
Study of-
  - (i) Colombia lipncott gazetteer of the world
  - (ii) Gazetteer of India
  - (iii) Fodor’s India
- Biographical sources –scope , categories , characteristics  
Study of-
  - (i) Dictionary of American biography
  - (ii) Dictionary of National biography
  - (iii) Dictionary of scientific biography
  - (iv) India who’s who
- Reference questions and their information sources with bibliographical description

## **PAPER-IV DOCUMENTATION AND INFORMATION SERVICE**

Full Marks:100 (Theory: 80, Internal Assessment: 20) Pass Marks 35%

### **UNIT-I**

- Documentation : meaning and definition , its aim, scope and development
- Documentation work and their scope
- Documentation services and their scope
- Documentation lists-their kinds and preparation
- Reprographic and translation service

### **UNIT-II**

- Information science –its definition , aims and scope
- Changing concept of information science
- Information users-their needs and information seeking behavior
- Nature of information needs
- Information services : CAS,SDI

### **UNIT-III**

- Abstracting- definition , aims and scope
- Types of abstracts
- Canons of abstracting
- Characteristics and qualities of good abstracts
- Methods and stages of abstracting
- Study of Chemical abstracts , Biological Abstracts, Physical Abstracts, Mathematical reviews, Psychological Abstracts, Sociological Abstracts, Library and information science abstracts, Indian science abstracts, Indian library science abstracts

### **UNIT-IV**

- Indexing-definition and functions
- Pre-coordinate indexing, chain indexing, PRECIS,POPSI
- Post coordinate indexing-Term entry system , peek-a-boo-system,edgenotched
- Punch card system
- Citation indexing
- Key word indexing

### **UNIT-V**

- Documentation centers and systems-FID,VINITI,
- NISCAIR, DESIDOC,NASSDOC,UNISIST AND NISSAT

## **PAPER-V COMPUTER APPLICATION IN LIBRARIES**

Full Marks:100 (Theory: 80, Internal Assessment: 20) Pass Marks 35%

### **UNIT-I Computer Basics**

- Computer: Definition , Development and Computer Generation.
- Types of computers and their use
- Basic components of a computer, Computer Peripherals
- Electronic data processing

### **UNIT-II Hardware and Software Components**

- Computer Hardware: Components and Functions
- Computer Software : Types and Uses
- Operating System, functions and their commands: Window and UNIX/LINUX
- Flow Chart

### **UNIT-III Software Packages**

- Word Processing Packages
- Desktop Publishing
- Library Application Software: CDS/ISIS
- Different types of Library Software

### **UNIT-IV Library Automation**

- Library House Keeping Operations
- Computerized Information Services
- Selection of Library Software Packages
- Use of INTERNET for various library activities, e-journals, e-books

### **UNIT-V Networking**

- Definition, Need, Client Server Architecture
- Types of Network: LAN, WAN, MAN
- Network Topologies: Bus, Star, Ring etc.
- Library Information Network: DELNET, INFLIBNET, CALLIBNET, UGC-Infonet

## **PAPER-VI LIBRARY CLASSIFICATION (THEORY)**

Full Marks:100 (Theory: 80, Internal Assessment: 20) Pass Marks 35%

### **UNIT-I**

- Library classification: Its definition, aims & function 3.
- Species of classification schemes- Enumerative & Faceted : their features, merits & demerits
- Basic subject & their kinds
- Comparative study of colon classification & Decimal classification

### **UNIT-II**

- Knowledge classification & its canons
- Hospitality in array & chain
- Facet analysis
- Five fundamental categories & their postulates
- Principles for facet sequence

### **UNIT-III**

- Types of isolates: common, special
- Devices used in Classification (chronological, geographical, subject, alphabetical Enumeration, superimposition & phase devices)
- System & specials

### **UNIT-IV**

- Notation: definition, need & functions
- Types, structure & qualities of notation
- **Mnemonics: lits types & canons**
- Indicator digits

### **UNIT-V**

- Book classification: purpose & meaning
- Canons for book classification
- System of book number
- Knowledge classification vs book classification
- Rules for classifying books
- Steps in practical classification



**PAPER-VII LIBRARY CLASSIFICATION (PRACTICE)**

Full Marks:100 (Practice: 80, Internal Assessment: 20) Pass Marks 35%

Classification of documents by using latest available edition of DDC and colon classification (6th ed. Reprint).

**PAPER-VIII LIBRARY CATALOGUING (PRACTICE)**

Full Marks:100 (Practice: 80, Internal Assessment: 20) Pass Marks 35%

Cataloguing of documents and continuing resources according to AACR-II(R)

**PT. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR**  
**Master of Library and Information Science**  
**Scheme of Exam: 2018 – 19**

**FIRST SEMESTER**

Total Credits - 20

| Paper | Subject                                                 | Internal Marks | External Marks | Credits |
|-------|---------------------------------------------------------|----------------|----------------|---------|
| MLI   | FOUNDATION OF INFORMATION SCIENCE                       | 20             | 80             | 4       |
| MLII  | KNOWLEDGE ORGANISATION & INFORMATION PROCESSING         | 20             | 80             | 4       |
| MLIII | RESEARCH METHODS & STATISTICAL TECHNIQUES               | 20             | 80             | 4       |
| MLIV  | MANAGEMENT OF LIBRARY & INFORMATION CENTRES/INSTITUTION | 20             | 80             | 4       |
| MLV   | INFORMATION PROCESSING AND RETRIEVAL (PRACTICE-I)       | 20             | 80             | 4       |
| Total |                                                         | 100            | 400            | 20      |

**SECOND SEMESTER**

Total Credits - 20

| Paper                                     | Subject                                            | Internal Marks | External Marks | Credits   |
|-------------------------------------------|----------------------------------------------------|----------------|----------------|-----------|
| ML VI                                     | INFORMATION RETRIEVAL                              | 20             | 80             | 4         |
| ML VII                                    | INFORMATION SOURCES, PRODUCTS AND SERVICES         | 20             | 80             | 4         |
| ML VIII                                   | INFORMATION TECHNOLOGY : BASICS & APPLICATIONS     | 20             | 80             | 4         |
| ML IX_A                                   | MANAGEMENT INFORMATION SYSTEMS.                    | 20             | 80             | 4         |
| ML X                                      | INFORMATION PROCESSING & RETRIEVAL (PRACTICE – II) | 20             | 80             | 4         |
| Total                                     |                                                    | 100            | 400            | 20        |
| <b>Total Marks of Semester I &amp; II</b> |                                                    | <b>200</b>     | <b>800</b>     | <b>40</b> |

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**UNIT-1 Information Science-**

- Definition, Scope, Objectives, Genesis and development.
- Information Science as a discipline and its relationship with other subject fields.
- Information industry- Generators, Providers and intermediaries.

**UNIT-2 Information and communication-**

- Information: Characteristics, Nature and use of information.
- Conceptual difference between data,
- Information and Knowledge.
- Communication of Information.
- Information generation and diffusion.
- Communication channels and barriers.

**UNIT-3 Information and the state-**

- Policies relating to information including science and technology and education.
- International and national programs and policies (NAPLIC)
- IT and library.
- UAP, UBC
- Laws relating to information with special reference to India. Including press and registration act. Delivery of books (public Libraries) Act, Copyright Act.

**UNIT-4 Information user & their needs-**

- Categories of information users.
- Information needs: definition and models.
- Information seeking behavior.
- Methods and techniques of user studies.
- Evaluation of user studies.

**Unit-5 Information products-**

- Information products: Nature, concept, types, design and development and marketing.
- Economics of information.
- Information management.
- Knowledge management.

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**UNIT-1 Universe of Knowledge-**

- Structure and attributes.
- Modes of formation of subjects,
- Different types of subjects and their modes of formation
- Universe of Knowledge as mapped in different schemes of classification.

**UNIT-2 Methods of knowledge organization-**

- Canons and normative principles of sayers and Ranganathan of classification.
- Species of Library Classification schemes.
- Standard schemes of library classification; Introduction, features and application-CC, DDC, & UDC.

**UNIT-3**

- Universal and special schemes of classification.
- Abstract classification.
- Choice of schemes of classification.
- Study of categories postulated by different classificationists for grouping ideas.
- Postulates & Principles for facet sequence.
- Telescoping of facets.

**UNIT-4 Notation-**

- Notation: Types, Structure & qualities, canons of notation.
- Mnemonics- Types and canons
- Indicator digits.
- Zone analysis and sector notation.
- Canons for book classification.
- Systems of book number.

**UNIT-5 Recent Trends & Developments-**

- Design and development of a Scheme of library classification.
- Role of DRTC, CRG and FID.
- Contribution of International Conferences towards classification research.
- BSO: Salient features.

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## PAPER-III RESEARCH METHODS & STATISTICAL TECHNIQUES

M.M. 80 Pass Marks 36%

### UNIT-1 Research-

- Research: Concept, Meaning, need and process of research.
- Types of Research- Fundamental and Applied.
- Research Design- Types of research design, Identification and formulation of problem, Hypotheses.

### UNIT-2 Research methods-

- Research Methods- Scientific, Historical, Descriptive, Survey and case study methods, Experimental method and Delphi Method.
- Research techniques & Tools- Questionnaire, Schedule interview, Observation and sampling techniques.

### UNIT-3 Data analysis and Interpretation-

- Descriptive Statistics- Measures of central tendencies- Mean, Median, Mode.
- Tabulation and generalization.
- Standard Deviation and Correlation.
- Testing of hypotheses.

### UNIT-4 Bibliometrics, Informatics & Scientometrics-

- Bibliometrics, Informatics & Scientometrics: Concept definition and their scope
- Bibliometrics laws- Bradford, Zipf, Lotka.
- Content analysis,
- Sociometry.
- Citation studies- Citation-nature and definition, Citation-theory and analysis.
- Offset weight age formula of Sengupta.

### UNIT-5 Research reporting- Designing research proposal-

- Structure, Style, Contents & Guidelines for Research reporting.
- Standards for citing bibliographical references (Like Chicago manual, MLA & Indian standards)
- Current trends in library and information science research.

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**PAPER-IV MANAGEMENT OF LIBRARY & INFORMATION CENTRES/INSTITUTION**

M.M. 80 Pass Marks 36%

**UNIT-1 Management**

- Management styles and approaches.
- Management schools of thought.
- Functions and Principles of Scientific Management.
- Human Resource Management- Organization structure, Job analysis and description; Job evaluation, Motivation.

**UNIT-2 Financial Management-**

- Resource mobilization.
- Budgeting technique & methods: PPBS. Zero based budgeting etc. Budgetary control.
- Cost effectiveness and cost benefit analysis.
- Total Quality Management (TQM)- Definition. Concept & elements of TQM and quality audit.

**UNIT-3 System Analysis and Design-**

- System- definition, Concept and characteristics.
- Library as a system.
- Project management,
- PERT/CPM.
- Decision tables.
- DFD (Data Flow Diagram).
- Work study: Flow chart, Gantt chart, Block diagrams.

**UNIT-4 Planning-**

- Concept, Definition, Need, Purpose, Types, Policies and Procedures.
- MBO, MBE
- Strategic management- Definition objectives. Policies process & models of strategic management.
- SWOT analysis.

**UNIT-5 Managing Change**

- Concept of change: changes in procedures, method.
- Use of new tools and techniques;
- Techniques of managing change.
- Collection development and management- Policies and procedures.
- Time and motion study.

**PAPER-V INFORMATION PROCESSING AND RETRIEVAL (PRACTICE-1)**

M.M. 80 Pass Marks 36%

- Classification of titles/documents by Colon Classification (6<sup>th</sup> Rev. Ed.) and UDC (Medium Edition).

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**PAPER-VI**  
**INFORMATION RETRIVAL**

**M.M. 80**  
**Pass Marks 36%**

**UNIT-I Subject analysis and representation-**

- Problems of subject analysis and representation.
- Contributions of cutter, Ranganathan, Farradane and Coates.
- Principles of subject cataloguing- Assigning subject-Headings using library of Congress subject headings and sears list of subject heading etc.

**UNIT-II Indexing language and vocabulary control-**

- Indexing languages- Types and characteristics.
- Vocabulary control- Tools of vocabulary control.
- Thesaurus- Structure and construction of an IR Thesaurus. Thesaurofacet.
- Trends in automatic indexing.
- Recall and Precision devices in indexing languages.

**UNIT-III Indexing systems-**

- Pre coordinate and post coordinate indexing system.
- Outline study of the following indexing systems.
- KWIC, KOWC.
- Chain Indexing, PRECIS, POPSI.
- Uniterm indexing, Citation indexing.
- Standards for Bibliographical Description: AACR-2, ISBD, MARC(Format), CCF

**UNIT -IV Information Retrieval Systems-**

- Definition, Types, Components and operational stages of IRS.
- Information Retrieval- Data Base. Information base and SQL, IR Models.
- Search Process- Principles & methods of searching.
- Search Techniques- Boolean searches On-line searching techniques and retrieval.

**UNIT-V Information retrieval systems evaluation.**

- Projects and parameters.
- Important test results- Cranfield, Medlars, Smart.
- Information retrieval through optical media and CD-ROM data base.
- IR through OPAC and Internet.

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**PAPER-VII**  
**INFORMATION SOURCES, PRODUCTS AND SERVICES.**

**M.M. 80**  
**Pass Marks 36%**

**UNIT-I Information sources-**

- Documentary sources of information.
- Print, Non-print including Electronic Nature.
- Characteristics, Utility and evaluation of different types of information sources.
- Non Documentary Information sources; Human and institutional – Nature, Types, Characteristics and utility.
- Internet as a source of information.

**UNIT-II Information services-**

- Information services- Concepts, Definition need and trends.
- Techniques and evaluation of alerting services (CAS & SDI).
- Bibliographic, Referral.
- Document delivery and translation services.

**UNIT-III Information Products-**

- Information products- Nature, Concept, Types, Design and marketing Abstracting.
- Types and guidelines in preparing abstracts.
- Study and evaluation of important abstract periodicals information analysis, Repackaging and consolidation.

**UNIT- IV User Educations-**

- Goals and objectives, Levels, Technique and methods.
- Reference interview and search techniques.
- Resource sharing and library networking.
- Study of Indonet, Inlibnet, Calibnet, Nicnet, Delnet, Adinet, Malibnet.

**UNIT-V**

- International information system and network.
- AGRIS, BIOSIS, CAS, DEVSIS, ICSU, INIS, INSPEC, MEDLARS.

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**PAPER-VIII**  
**INFORMATION TECHNOLOGY: BASICS & APPLICATIONS**

**M.M. 80**  
**Pass Marks 36%**

**UNIT-II Information Technology-**

- Definition, need, scope and objectives.
- Historical background of computers.
- Generation of computers.
- Architecture CPU, Input/output devices .
- Hardware and software.
- Operating system-Ms-windows, UNIX, MS-DOS.

**UNIT-II Networking-**

- Types of networks-LAN, WAN, MAN.
- Local Area Networks; LAN Topologies, Network Hardware- Network interface card, hubs/switches.
- Gateways/Bridges, routes, modem.
- Network Protocols- TCP/IP, Net-BUI, IPX.

**UNIT-III Internet-Basic features and tools-**

- Connectivity- Dialup, Leased lines, Microwave, ISDN.
- Digital Subscriber Lines (DSL).
- E-mail-Protocols- Telnet, FTP, DTP. Web browsers, Web servers, Search Engines, Keta Search.
- Web design- SGML, HTML, DHTML and XML.

**UNIT-IV Data Base Management System-**

- Models- Hierarchical, Network, Relational and object oriented.
- Software- CDS/ISIS, SOUL.
- Structure Query Language. Artificial Intelligence.
- Digital libraries- definition, characteristics & attributes,
- Storage media formats- DVD.

**UNIT-V Library Automation-**

- Planning and implementation of library automation.
- Automation of in- house operations- Acquisitions, Cataloguing, Circulation, OPAC Bar-coding.

**PAPER- IX**

**ELECTIVES; INFORMATION SYSTEMS (Any one o the following)**

- IX-A Management Information Systems.
- IX-B Business Information Systems.
- IX-C Biotechnology Information Systems.
- IX-D Health science Information Systems.
- IX-E Agricultural Information Systems.
- IX-F Social Science Information Systems. (Note- In the initial stage only one information system, i.e. "IX-A; Management information Systems" is being implemented.)

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**Paper – IX**  
**ELECTIVES ; Information Systems (Any one of the following)**  
**PAPER- IX-A**  
**MANAGEMENT INFORMATION SYSTEMS.**  
**FM 100(Theory 80 + Internal Assessment 20)**

**Pass Marks 36%**

**UNIT-I**

- Definition, concepts, elements and objectives of M.I.S.
- Information and management effectiveness.
- Information needs and management levels.
- Features of MIS system approach to MIS.
- Properties of MIS.

**UNIT-II**

- Structure of MIS.
- MIS and decision making.
- Planning for MIS-Systems analysis: Systems design.
- Techniques of system analysis; Techniques for MIS planning.

**UNIT-III Information Support System-**

- Management reporting systems (MRS);
- Decision Support Systems (DSS);
- Office Automation Systems (OAS);
- Knowledge Based Systems.

**UNIT IV Functional Informational Systems-**

- Financial Information Systems; Marketing IS; & Human resource IS.
- Implementation, Evaluation & Maintenance of MIS.

**UNIT V**

- Role of Computer in MIS.
- Data Base Management.
- Data Base Software-Software needs selection and development.
- Data communication and networking.
- Using Information superhighways- Internet and Intranet.

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**PAPER- IX-B**

**Academic Library and Information System  
FM 100(Theory 80 + Internal Assessment 20)**

**Pass Marks 36%**

**Unit – 1 Academic Library**

- History and Development of Libraries with special reference to India
- Role of Academic Library in Education
- Academic Library as a support System for Education

**Unit – 2 Development of Academic Library**

- Role of UGC in Promoting Academic Libraries, University College and other Institutions
- Role of library authorities of the Institutions in Promoting Library Resources
- Development of Library Services
- Financial Management of Academic Libraries

**Unit – 3 Collection Developments**

- Collection Development Policy, Weeding policy
- Problems in Collection Organization in an Academic Library
- Collection Development Programmes, Allocation of Funds to Collection Procurement.
- Curriculum and Collection Development
- Library Committees and their Role in Collection Development

**Unit – 4 Staffing and Staff Development for Academic Library**

- Norms and Patterns for Staffing in University, College and School Libraries
- Continuing Education Programmes for Academic Library Development
- Personal Management in Academic Library

**Unit – 5 Resource Sharing Programmes**

- Resource Sharing Services – its Objectives, Organization and Development
- INFLIBNET and its Implications to Library Resource Sharing
- Regional and City Network of Libraries and their Importance

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## PAPER- IX-C

### Archival, Museum and Archaeological Information System FM 100 (Theory 80 + Internal Assessment 20)

Pass Marks 36%

#### Unit - 1 History and Development

- History and Development and types of Archival Centers
- Kind and identification of Archival material

#### Unit-2 Organisation and Management of Archival and Manuscripts

- Acquisition, Classification, Cataloguing and Indexing of Archival material
- Source material on Archival , Manuscripts
- Machine Readable and Microfilm of Archival records
- Database and Digitization of Archives
- Role of UNESCO and other agencies

#### Unit -3 Environment Control

- Building Design
- Planning and furniture and Fillings
- Use of Copy Right to information in relation to archives

#### Unit - 4 Preservation of Archives

- Objective and Purpose
- Cause of Deterioration
- Environmental Pollution : Physical , Chemical and Atmospheric
- Biological enemies of materials : Mould , Fungi , Insect and Rodents

#### Unit – 5 Rehabilitation of Documents

- Cleaning, removal of Stains
- Fuming and deacidification
- Repair and restoration techniques
- Lamination
- Standards for Storage Conditions

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## PAPER- IX-D

### Agricultural Information System FM 100 (Theory 80 + Internal Assessment 20)

Pass Marks 36%

#### Unit - 1 **Agriculture Education and Agriculture Libraries**

- Growth and development of Agriculture education and research in India
- Role of Library in Agricultural education, research and Extension
- Development of Agriculture Library in India

#### Unit – 2 **Information Source and Services in Agriculture**

- Specialized Collection and Information Sources
- Information Service and products in Agricultural Science and Technology with
- Special reference to India
- Agriculture Information Centers - National and International

#### Unit-3 **Organization and Management of Resources**

- General Principle of Information Management
- Information Organization , Processing and Dissemination
- Developing need based and on Demand Specialized Services

#### Unit – 4 **Information Needs**

- Identifying special need of Agricultural faculty & research Staff
- User Studies of Local Agriculture Libraries

#### Unit - 5 **Agriculture Information System and Networks**

- Current Trends in agricultural System and Networks
- Resource Sharing and Networking in Agricultural Libraries in India
- International Agricultural Database
- Professional Associations.

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**PAPER- IX-E**  
**Legal Information System**  
**FM 100 (Theory 80 + Internal Assessment 20)**

**Pass Marks 36%**

**Unit- 1      Law Librarianship**

- Growth and Development of legal Institutional in India
- Nature Principle and Characteristics of legal Information and Law Libraries
- Type of Law Library

**Unit – 2      Information Source Collections**

- Special Information Sources : Bills , Acts , Books , Serials , Law Court notice ,
- Law case amendments
- Tribunal Report, Law Digests , Legal Judgment, Delegation Legislation
- Rules and orders , Legal information Sources and Lexicons

**Unit - 3      Organizations and Management of Resources**

- Information Processing : Classification, Cataloguing and Indexing
- Developing special skills and Techniques to handle legal information ( personnel )
- Managing finance : Funds & Fund Generation

**Unit – 4      Information need and services**

- Special needs of lawyers and legal Professionals
- Study of Law Information Centers ( Local )
- Special Services, Planning and design
- Preparation of rappers on Law Libraries ( Local )
- Dissemination methods and techniques

**Unit - 5      Legal Information System & Networks**

- Legal information System :National and International
- Structure and their services
- Legal Database and Digital Libraries
- Resource and Networks of Legal Information

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**PAPER- IX-F**

**Industrial Information System  
FM 100 (Theory 80 + Internal Assessment 20)**

**Pass Marks 36%**

**Unit - 1 Growth and Development of Industries & Industrialization Libraries**

- Industrial Growth in India
- Type of Industries: Government and Non-Government.
- Role of Libraries and Information Center in Industries
- Categories of Industrial Libraries

**Unit – 2 Industrial Information Resource Collections**

- Tread Literature
- Patents
- Standards
- Technical Reports Bulletins

**Unit – 3 Organizations and Management of Industrial Information**

- Special Classification Scheme and Indexing System
- Planning and Designing Specialized information services and Products
- System approach to Planning and Design and Implementation
- Managing personal Skills and Finance

**Unit – 4 Information needs and Services of Industrial Libraries**

- Special Classification Schemes and Indexing System
- Case Studies and field Experience of local Industries
- Preparation of Report of an Industrial Library Survey (Local )
- Marketing of Information
- Computerized Information Service

**Unit – 5 Industrial Information System and Network**

- Industrial Information Centers and Networks National and International
- (SENDOC)
- Structure and their services
- Industrial Databases
- Resource Sharing and Networking of Industrial Information Centers in India

**PAPER – X  
INFORMATION PROCESSING & RETRIVAL (PRACTICE- II)**

**M.M. 80**

**Pass Marks 36%**

**(AACR-2)**

**Cataloguing of Publications by AACR-2**

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**SCHOOL OF STUDIES IN LIBRARY AND INFORMATION SCIENCE  
PT. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR (C.G.)**

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**Ph.D. – Course Work in Library & Information Science**

**Duration: One Semester (Six Months)**

| <b>S.N.</b>  | <b>Title and Paper</b>                | <b>F.M.</b> | <b>Pass Marks</b> | <b>Theory</b> |
|--------------|---------------------------------------|-------------|-------------------|---------------|
| 1            | Paper – I: Research Methodology       | 100         | 60                | 100           |
| 2            | Paper – II: ICT and Computer Literacy | 100         | 60                | 100           |
| 3            | Paper – III: Seminar                  | 100         | 60                | 100           |
| <b>Total</b> |                                       | 300         | 180               | 300           |



## **Paper – I**

### **Research Methodology**

- **Research:** Characteristics, Types & Steps in research, Identification, Selection and formulation of research problems, Research questions, Review of Literature.
- **Hypothesis:** Definition and Types, Formulation & Testing. Standard Error & Point and Interval estimates.
- **Sampling theory:** Types of Sampling, Steps in Sampling. Methods of Data Collection.
- **Statistical Methods:** basic concepts & its implication in research, Measures of Central Tendency. Dispersion, Skewness and Kurtosis in Research.
- **Writing Proposal & Report:** Introduction of Synopsis & summary writing. Information Presentation, Presentation of Bibliography and citation. Editing the Final Draft, Evaluating the Final Draft.

## **Paper – II**

### **ICT and Computer Literacy**

- **Computer:**Introduction, Computer Architecture and Storage Devices
- **Operating Systems:**Basic introduction to windows& Linux.
- **Internet:**Basics of Internet; Search engine and Meta search engines, Internet search techniques, Internet Security.
- **Electronic Resources:**Web resources, online databases, electronic journals, e-books& on- line indexing and abstracting services, Services Offered by Library Networks.
- **Word Processor Software:**MS Word, MS EXCEL, MS Power Point
- **Statistical Tools:** Statistical software available for analysis and graphical representation: SPSS, etc.

| <b>Scheme of Semester Examination &amp; Syllabus, 2018-2020</b> |                                                                     |            |             |           |
|-----------------------------------------------------------------|---------------------------------------------------------------------|------------|-------------|-----------|
| <b>M. Sc. Bioscience (Semester I to IV)</b>                     |                                                                     |            |             |           |
| <b>Pt. Ravishankar Shukla University, Raipur</b>                |                                                                     |            |             |           |
| <b>First Semester [July 2018 – December 2018]</b>               |                                                                     |            |             |           |
| Paper                                                           | Title of Paper                                                      | Marks      |             |           |
|                                                                 |                                                                     | (External) | (Internal*) | Credit    |
| I                                                               | Cell Biology                                                        | 80         | 20          | 4         |
| II                                                              | Biomolecules                                                        | 80         | 20          | 4         |
| III                                                             | Microbiology                                                        | 80         | 20          | 4         |
| IV                                                              | Biology of Immune System                                            | 80         | 20          | 4         |
| LC-I                                                            | Lab Course I (Based on Theory papers I & II)                        | 80         | 20          | 2         |
| LC-II                                                           | Lab Course II (Based on Theory papers III & IV)                     | 80         | 20          | 2         |
|                                                                 | <b>Total</b>                                                        | <b>600</b> |             | <b>20</b> |
| <b>Second Semester [January 2019– June 2019]</b>                |                                                                     |            |             |           |
| Paper                                                           | Title of Paper                                                      | (External) | (Internal)  | Credit    |
|                                                                 |                                                                     |            |             |           |
| I                                                               | Genetics and Molecular Biology                                      | 80         | 20          | 4         |
| II                                                              | Bioenergetics & Metabolism                                          | 80         | 20          | 4         |
| III                                                             | Instrumentation and Molecular Techniques                            | 80         | 20          | 4         |
| IV                                                              | Biometry, Computer and Scientometry                                 | 80         | 20          | 4         |
| LC-I                                                            | Lab Course I (Based on Theory papers I & II)                        | 80         | 20          | 2         |
| LC-II                                                           | Lab Course II (Based on Theory papers III & IV)                     | 80         | 20          | 2         |
|                                                                 | <b>Total</b>                                                        | <b>600</b> |             | <b>20</b> |
| <b>Third Semester [July 2020 – December 2020]</b>               |                                                                     |            |             |           |
| Paper                                                           | Title of Paper                                                      | (External) | (Internal)  | Credit    |
|                                                                 |                                                                     |            |             |           |
| I                                                               | Molecular Plant Physiology                                          | 80         | 20          | 4         |
| II                                                              | Ecology and Environmental Biology                                   | 80         | 20          | 4         |
| III                                                             | Animal Physiology                                                   | 80         | 20          | 4         |
| IV                                                              | Developmental Biology and Evolution                                 | 80         | 20          | 4         |
| LC-I                                                            | Lab Course I (Based on Theory papers I & II)                        | 80         | 20          | 2         |
| LC-II                                                           | Lab Course I (Based on Theory papers III & IV)                      | 80         | 20          | 2         |
|                                                                 |                                                                     | <b>600</b> |             | <b>20</b> |
| <b>Fourth Semester [January 2020 – June 2020]</b>               |                                                                     |            |             |           |
| Paper                                                           | Title of Paper                                                      | (External) | (Internal)  | Credit    |
|                                                                 |                                                                     |            |             |           |
| I                                                               | Seed Science                                                        | 80         | 20          | 4         |
| II                                                              | Plant Biotechnology                                                 | 80         | 20          | 4         |
| III                                                             | Special Paper A: Parasitology/ Special Paper B: Basic Chronobiology | 80         | 20          | 4         |
| IV                                                              | Special Paper A: Immunology/ Special Paper B: Applied Chronobiology | 80         | 20          | 4         |

|                                                 |                                                 |                          |             |            |           |
|-------------------------------------------------|-------------------------------------------------|--------------------------|-------------|------------|-----------|
| <b>LC-I</b>                                     | Lab Course I (Based on Theory papers I & II)    | <b>80</b>                | <b>20</b>   | <b>2</b>   |           |
| <b>LC-II</b>                                    | Lab Course II (Based on Theory papers III & IV) | <b>80</b>                | <b>20</b>   | <b>2</b>   |           |
|                                                 | <b>Total</b>                                    |                          | <b>600</b>  | <b>20</b>  |           |
|                                                 | <b>OR</b>                                       |                          |             |            |           |
|                                                 | <b>Project Work**</b>                           |                          | <b>600</b>  |            |           |
|                                                 | Distribution of Marks                           | Dissertation             | <b>240</b>  | <b>60</b>  | <b>11</b> |
|                                                 |                                                 | Seminar based on project | <b>160</b>  | <b>40</b>  | <b>6</b>  |
|                                                 |                                                 | Viva-voce                | <b>80</b>   | <b>20</b>  | <b>3</b>  |
|                                                 |                                                 |                          |             | <b>600</b> | <b>20</b> |
| <b>Grand total [Semester I + II + III + IV]</b> |                                                 |                          | <b>2400</b> | <b>80</b>  |           |

**Important Note:**

Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words.

**Continuous evaluation of Performance\***

Each student will be evaluated continuously throughout the semester.

There will be a class test based on each theory paper. The full marks will be 10 for each paper.

There will be a poster/oral presentation based on each theory paper. The full marks will be 10 for each presentation.

Each student will be required to submit a brief write-up (not more than 15-20 pages) on his/her poster/oral presentation.

**Project Work\*\***

A student of IV semester will have the choice to opt for project work in lieu of four theory papers and two lab courses provided he/she secures at least **75%** or more marks in aggregate in semester I and II.

The project has to be carried out in recognized national Institutes/Laboratories or UGC-recognized universities. No student will be allowed to carry out project work in private laboratories/ college/ institutions, excluding the colleges recognized as research centers by the RDC of Pt. Ravishankar Shukla University, Raipur.

The valuation of all the projects will be carried out by an external examiner and HoD of UTD or its nominee at the UTD Centre.

**Scheme for Lab Course (LC) Examination (Applicable for each LC in each Semester)**

|  |           |                                  |           |
|--|-----------|----------------------------------|-----------|
|  | <b>1.</b> | Major exercise based on paper I  | <b>20</b> |
|  | <b>2.</b> | Minor exercise based on paper I  | <b>10</b> |
|  | <b>3.</b> | Major exercise based on paper II | <b>20</b> |
|  | <b>4.</b> | Minor exercise based on paper II | <b>10</b> |
|  | <b>5.</b> | Spotting/ Interpretation***      | <b>10</b> |
|  | <b>6.</b> | Viva-voce                        | <b>10</b> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>7.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sessional [Internal] | <b>20</b>  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Total</b>         | <b>100</b> |
| *** A student will be required to interpret on the displayed item/<br>material                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |            |
| July 2018 – December 2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |            |
| <b>M.Sc. Bioscience</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |            |
| <b>First Semester</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |            |
| <b>Paper I: Cell Biology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |            |
| Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |            |
| <b>Unit-I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Molecular organization of membranes - Asymmetrical organization of lipids, proteins and carbohydrates. Membrane transport: Passive transport, Osmosis, ion channels, membrane pumps and, Active transport: ATP-powered pumps-types, properties and mechanisms, electrical properties of membranes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |            |
| <b>Unit-II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Protein trafficking: Transport of proteins into mitochondria, chloroplast, endoplasmic reticulum and nucleus. Transport by vesicle formation: exocytosis, endocytosis and its molecular mechanism.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |            |
| <b>Unit-III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Cell signaling: Signaling via G-protein linked and enzyme linked cell surface receptors, MAP kinase pathways.<br>Eukaryotic cell division cycle: different phases and molecular events, regulation and control of cell cycle. Oncogenes: retinoblastoma, E2F and p53 proteins.<br>Apoptosis: regulation by CASPases and formation of apoptosome. Pro- and anti-apoptotic factors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |            |
| <b>Unit-IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | States of chromosomes during cell cycle. Mitotic chromosome. Organization of genes in chromosomes. Banding pattern of chromosomes. Lampbrush and Polytene chromosomes. DNA packaging: Chromatin, nucleosomes, heterochromatin and euchromatin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      |            |
| <b>Lab Course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ol style="list-style-type: none"> <li>1. Study of chromosome behaviour during Mitosis and meiosis (Onion / Garlic root tips, Onion buds, human lymphocytes, rat or bird testis /grass hopper testis or any other materials).</li> <li>2. Calculation of mitotic index in growing Onion / Garlic root tips</li> <li>3. Squash preparation: Polytene chromosome (in chironomus / Drosophila or other insect salivary gland) and Barr body (in buccal epithelial cells).</li> <li>4. Demonstration of secretory granules in the salivary gland cells of insect.</li> <li>5. Demonstration of mitochondria by vital staining.</li> <li>6. Study of permanent slides.</li> <li>7. Estimation of DNA</li> <li>8. Estimation of RNA</li> <li>9. Sub-cellular fractionation and marker enzymes</li> <li>10. Identification of biomolecules in different tissues by histochemical techniques</li> <li>11. Preparation of mitotic plate by carmine squashing method and phase identification.</li> <li>12. Demonstration of the nuclear matrix networks in onion cells.</li> <li>13. Study of the effect of chemical agents on chromosomes plant cells.</li> <li>14. Isolation of protoplast, measurement of cell density plating efficiency.</li> <li>15. Preparation of Karyotype of metaphase plate.</li> </ol> |                      |            |

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|                          | 16. Preparation of Meiotic plate and determination of phases.<br>17. Computation of Chiasma frequency and Terminalization of phases.<br>18. Micrometry and Camera Lucida drawings. |
| <b>Recommended Books</b> |                                                                                                                                                                                    |
| H Lodish <i>et al.</i>   | Molecular Cell Biology                                                                                                                                                             |
| B Alberts <i>et al.</i>  | Essential Cell Biology                                                                                                                                                             |
| H Lodish <i>et al.</i>   | Molecular Cell Biology (Lodish, Molecular Cell Biology)                                                                                                                            |
| B Alberts <i>et al.</i>  | Molecular Biology of the Cell                                                                                                                                                      |
| G Karp                   | Cell and Molecular Biology: Concepts and experiments                                                                                                                               |

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| July 2018 – December 2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                              |
| <b>M.Sc. Bioscience</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                              |
| <b>First Semester</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                              |
| <b>Paper II: Biomolecules</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                              |
| Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words. |                                                                                                                                                                                                                                                              |
| <b>Unit-I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Classification and function of Carbohydrates, Lipid and Nucleic acid:<br>Carbohydrate: Monosaccharides, homo and hetero-polysaccharides, Peptidoglycan glycoproteins and liposaccharide.<br>Lipids: Simple; cholesterol and complex; phospholipids and TAG   |
| <b>Unit-II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Classification and functions of amino acids, Synthesis of peptides, Proteins-properties, secondary, tertiary and quaternary structure of proteins, Ramchandranplot.<br>Nucleic Acid: Purine and pyrimidine, DNA-types, linking number, RNA-types.            |
| <b>Unit-III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Enzyme: apoenzymes, cofactors, coenzymes, active site, factors contributing to the catalytic efficiency of enzyme; enzyme kinetics- Michaelis-Menten equation, determination of Km, enzyme inhibition, allosteric enzymes, isoenzymes, multienzyme complexes |
| <b>Unit-IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Structure and biological role of:<br>Porphyrins in biology, structure of hemoglobin and chlorophyll<br>Animal hormones: protein, peptide and steroid hormones.<br>Vitamins: fat and water soluble.                                                           |
| <b>Lab Course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                              |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Specific tests for sugars, amino acids and lipids                                                                                                                                                                                                            |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Formal titration of amino acids                                                                                                                                                                                                                              |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Estimation of proteins using ninhydrin and biuret method                                                                                                                                                                                                     |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Estimation of sugar by Anthrone and Folin-Wu method                                                                                                                                                                                                          |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Saponification value and iodine number of fat.                                                                                                                                                                                                               |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Estimation of ascorbic acid                                                                                                                                                                                                                                  |
| 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Achromic point determination using salivary amylase                                                                                                                                                                                                          |
| 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Effect of ions on salivary amylase activity                                                                                                                                                                                                                  |
| 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Enzyme assay and kinetics (ex. Amylase, Protease)                                                                                                                                                                                                            |
| <b>Recommended Books:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                              |
| Nelson, Cox and Lehninger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Principles of Biochemistry                                                                                                                                                                                                                                   |

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|--------------------------------|---------------------------|
| G Zubay                        | Biochemistry              |
| Stryer                         | Biochemistry              |
| Garrett and Grosham            | Biochemistry              |
| West, Tood, Mason and Bbruglen | Text book of biochemistry |
| White, Handler and Smith       | Biochemistry              |
| D Voet and JC Voet             | Biochemistry              |

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| July 2018 – December 2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>M.Sc. Bioscience</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>First Semester</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Paper III: Microbiology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Unit-I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | General characteristics of fungi, classification of fungi, life cycle of selected fungal genus ( <i>Aspergillus</i> , <i>Pencillium</i> , <i>Fusarium</i> and <i>Mucor</i> ).Economic importance of fungi.<br>Fungi and bioremediation, parasitism, mutualism and symbiosis with plants and animals.Heterothallism, sex hormone in fungi, Mycorrhiza, VAM.<br>Algae: Distribution, classification, reproduction, ecology and importance.                                                                     |
| <b>Unit-II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Morphology and ultra structure of bacteria:<br>Morphological types, cell wall of archaebacteria, gram negative, gram positive eubacteria.<br>Cell membranes – structure, composition and properties.Structure and function of flagella, cilia, pili, gas vesicles.<br>Cyanobacteria, protozoa, mycoplasma and Rickettsia.<br>Gene transfer mechanisms: transformation, transduction, conjugation and transfection.<br>Plasmids: F- factors, colicins and col factors, plasmids as a vector for gene cloning. |
| <b>Unit-III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Nutritional types (autotrophs, heterotrophs, phototrophs, chemotrophs), growth curves, measurement of growth, factors affecting growth, generation time, growth kinetics.<br>Batch and continuous culture, asynchronous, synchronous culture.<br>Basis of microbial classification, classification and salient feature of bacteria according to Bergey’s manual of determinative bacteriology, cyanobacteria, prochlorons and cyanelles.                                                                     |
| <b>Unit-IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Viruses: Structure and classification of viruses; General Concepts: Viral genome, capsids, envelopes, viroids and prions).<br>Virus reproductions: Lysogeny and Lytic phase,<br>Bacteriophages and their types.<br>General Introduction to Plant and animal viruses (TMV, HIV, Hepatitis virus, H1N1 virus, Small Pox virus), hemorrhagic viral fever, Route of transmission of viruses, Laboratory diagnosis and treatment, Antiviral therapy.                                                              |

| <b>Lab Course:</b>                                                            |                                                                                                                                      |
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| 1.                                                                            | Glassware preparation and sterilization techniques- wet heat- dry heat- filter types- laminar flow chamber types- CDC- safety levels |
| 2.                                                                            | Preparation of liquid & solid media, plating, pouring, inoculation and incubation for growth of microorganism                        |
| 3.                                                                            | Methods of obtaining pure culture of microorganisms (a) streak plate (b) Pour plate, and (c) spread plate methods                    |
| 4.                                                                            | Microscopic examination of the microorganisms, identification and staining methods                                                   |
| 5.                                                                            | Micrometry and camera lucida drawings                                                                                                |
| 6.                                                                            | Study of bacterial growth by turbidimetry/ spectrophotometry                                                                         |
| 7.                                                                            | Biomass measurement for fungi                                                                                                        |
| 8.                                                                            | Isolation and enumeration of microorganisms from soil by serial dilution agar plating method                                         |
| 9.                                                                            | Enumeration of viruses by plaque assay technique                                                                                     |
| 10.                                                                           | Motility of bacteria by hanging drop technique                                                                                       |
| <b>Recommended Books:</b>                                                     |                                                                                                                                      |
| LM Prescott, JP Harley and DA Klein                                           | Microbiology, McGraw Hill Publication                                                                                                |
| RY Stanier et al.                                                             | General Microbiology, Mac Millian Press                                                                                              |
| RM Atlas                                                                      | Principles of Microbiology                                                                                                           |
| Peleczar, Chan and Krieg                                                      | Microbiology                                                                                                                         |
| Luria, Darnell, Baltimore and Campbell                                        | General Virology                                                                                                                     |
| CJ Alexopoulos and CW Mims                                                    | Introduction to Mycology, Wiley Eastern Ltd, New Delhi                                                                               |
| S. J. Flint, V. R. Racaniello, L. W. Enquist, V. R. Rancaniello, A. M. Skalka | Principles of Virology: Molecular Biology, Pathogenesis, and Control of Animal Viruses.                                              |

| July 2018 – December 2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                          |
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| <b>M.Sc. Bioscience</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                          |
| <b>First Semester</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                          |
| <b>Paper IV: Biology of Immune System</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                          |
| Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words. |                                                                                                                                                                                                                                                                                                                          |
| <b>Unit-I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Innate immune mechanism and characteristics of adaptive immune response.<br>Cells of immune system: Hematopoiesis and differentiation, mononuclear cells and granulocytes, antigen presenting cells.<br>Primary and Secondary lymphoid organs and tissues.<br>Ontogeny and phylogeny of lymphocytes. Lymphocyte traffic. |
| <b>Unit-II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Antigen receptor molecules: B-cell receptor complex, Immunoglobulin-structure, types and function. T-cell receptor complex. Major Histocompatibility Complex- types, structural organization, function and distribution. Transplantation and Rejection. Complement system.                                               |
| <b>Unit-III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Antigens: nature of antigens, factor affecting immunogenicity, Haptens and super antigens. Antigenic determinants. Recognition of antigens by T and B cell.<br>Antigen processing. Role of MHC molecules in antigen presentation and co-stimulatory signals. Antigen and antibody interaction.                           |
| <b>Unit-IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cell mediated immune response. Cytokines and interleukins- structure and                                                                                                                                                                                                                                                 |



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|                                     | function. Immunity to infections. Hypersensitive reactions and their types. Immunodeficiency disorders. Autoimmunity |
| <b>Lab Course:</b>                  |                                                                                                                      |
| 1.                                  | Identification of cells of immune system                                                                             |
| 2.                                  | Separation of mononuclear cells by Ficoll-Hypaque                                                                    |
| 3.                                  | Identification of Lymphocytes and their subsets                                                                      |
| 4.                                  | Lymphoid organs and their microscopic organization                                                                   |
| 5.                                  | Isolation and purification of Antigens                                                                               |
| 6.                                  | Purification of IgG from serum                                                                                       |
| 7.                                  | Estimation of Levels of gamma globulins and A/G ratio in blood                                                       |
| 8.                                  | Antigen antibody interaction                                                                                         |
| <b>Recommended Books:</b>           |                                                                                                                      |
| RA Goldsby <i>et al.</i>            | Kuby's Immunology                                                                                                    |
| E Benjamini, R Coico and G Sunshine | Immunology- A short Course                                                                                           |
| Roitt, Brostoff and Male            | Immunology                                                                                                           |
| William Paul                        | Fundamentals of Immunology                                                                                           |
| Tizard                              | Immunology                                                                                                           |
| Abbas <i>et al.</i>                 | Immunology                                                                                                           |

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| January 2019 – June 2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>M.Sc. Bioscience</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Second Semester</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Paper I: Genetics and Molecular Biology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p>Each theory paper will have questions divided into four sections, A, B, C &amp; D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Unit-I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>Gene mapping methods: Linkage maps, tetrad analysis, mapping with molecular markers, mapping by using somatic cell hybrids, development of mapping population in plants, complementation analysis.</p> <p>Mutation: Types, mutagens and detection.</p> <p>Mutant types – lethal, conditional, biochemical, loss of function, gain-of-function, germinal versus somatic mutants, insertional mutagenesis.</p> |
| <b>Unit-II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>DNA replication in eukaryotes and prokaryotes : enzymes involved, replication origin and replication fork, fidelity of replication, extrachromosomal replicons.</p> <p>DNA damage and repair mechanisms: Repair of Base-excision, Nucleotide excisions, Mismatch and Double Strand. p53 and p21.</p>                                                                                                         |
| <b>Unit-III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>RNA synthesis and processing: enzymes involved, formation of initiation complex, transcription activator and repressor, elongation, and termination, RNA processing, capping, RNA editing, splicing, and polyadenylation, RNA transport.</p>                                                                                                                                                                 |
| <b>Unit-IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>Protein synthesis and processing: Ribosome, formation of initiation complex, initiation factors, elongation and elongation factors and their regulation, termination.</p> <p>Aminoacylation of tRNA, tRNA-identity, aminoacyl tRNA synthetase, and translational proof-reading, translational inhibitors.</p>                                                                                                |

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|                              | Post Translational modification of proteins.                                                                                                                                                                                                                                                                                                                                                     |
| <b>Lab Course:</b>           |                                                                                                                                                                                                                                                                                                                                                                                                  |
|                              | <ol style="list-style-type: none"> <li>1. Isolation, purification and estimation of RNA</li> <li>2. Isolation, purification and estimation of DNA</li> <li>3. Determination of T<sub>m</sub> of nucleic acid</li> <li>4. Fraction of poly (A) RNA</li> <li>5. Restriction Mapping</li> <li>6. Restriction Digestion</li> <li>7. Ligation</li> <li>8. DNA molecular size determination</li> </ol> |
| <b>Recommended Books</b>     |                                                                                                                                                                                                                                                                                                                                                                                                  |
| H Lodish <i>et al.</i>       | Molecular Cell Biology                                                                                                                                                                                                                                                                                                                                                                           |
| B Alberts <i>et al.</i>      | Essential Cell Biology                                                                                                                                                                                                                                                                                                                                                                           |
| B Alberts <i>et al.</i>      | Molecular Biology of the Cell                                                                                                                                                                                                                                                                                                                                                                    |
| G Karp                       | Cell and Molecular Biology: Concepts and experiments                                                                                                                                                                                                                                                                                                                                             |
| JD Watson <i>et al.</i>      | Molecular Biology of the Gene                                                                                                                                                                                                                                                                                                                                                                    |
| J Wilson and T Hunt          | Molecular Biology of the Cell: The Problems                                                                                                                                                                                                                                                                                                                                                      |
| B Lewin                      | Genes VIII                                                                                                                                                                                                                                                                                                                                                                                       |
| JE Krebs <i>et al.</i> (Ed.) | Genes X (Lewin's), Jones and Bartlett Publishers, Sudbury, Massachusetts, (2011)                                                                                                                                                                                                                                                                                                                 |

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| January 2019 – June 2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>M.Sc. Bioscience</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Second Semester</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Paper II: Bioenergetics and Metabolism</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>Each theory paper will have questions divided into four sections, A, B, C &amp; D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Unit-I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | First and second laws of thermodynamics. Gibbs free energy G, free energy change $\Delta G$ , endergonic & exergonic reactions,. Standard state free energy changes- $\Delta G$ , $\Delta G^0$ and $\Delta G'^0$ , Relationship between equilibrium constant and $\Delta G'^0$ , Feasibility of reactions. ATP-Structure, properties and energy currency of the cell, Importance of Coupled reactions, other high energy compounds. |
| <b>Unit-II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Carbohydrate metabolism: Glycolysis, Kreb's cycle, glycogenolysis, glycogenesis, pentose phosphate pathway, gluconeogenesis, and glyoxylate pathway. Regulation of carbohydrate metabolism.                                                                                                                                                                                                                                         |
| <b>Unit-III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Electron transport and oxidation phosphorylation: electron carriers, complexes I to IV, substrate level phosphorylation, mechanism of oxidative phosphorylation. Shuttle system for entry of electron.<br>Biosynthesis and degradation of Lipids. Regulation of lipid metabolism                                                                                                                                                    |
| <b>Unit-IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Nitrogen Assimilation: Overview of Nitrogen in biosphere and uptake by organism. Biosynthesis and degradation of amino acids. Regulation of amino acid metabolism. Biosynthesis and degradation of purine and pyrimidine nucleotides.                                                                                                                                                                                               |
| <b>Lab Course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Protein estimation by Lowry, Bradford and Spectrophotometric method                                                                                                                                                                                                                                                                                                                                                                 |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Estimation blood cholesterol                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Estimation of sugar by Nelson-Sompy and Benedict's reagent                                                                                                                                                                                                                                                                                                                                                                          |

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| 4. | Isolation and estimation of lipid from seeds and egg                   |
| 5. | Estimation of inorganic and total phosphorus by Fiske-Subba Rao method |
| 6. | Assay of phosphatases in blood and seeds                               |
| 7. | Urease estimation in plant tissues                                     |

**Recommended Books:**

|                                |                                 |
|--------------------------------|---------------------------------|
| Nelson, Cox and Lehninger      | Principles of Biochemistry      |
| G Zubay                        | Biochemistry                    |
| Stryer                         | Biochemistry                    |
| Garrett and Grosham            | Biochemistry                    |
| West, Tood, Mason and Bbruglen | Text book of biochemistry       |
| White, Handler and Smith       | Biochemistry                    |
| D.Voet and J C Voet            | Biochemistry                    |
| Dixon and Webb                 | Enzymes                         |
| Price and Steven               | Fundamentals of Enzymology      |
| Plummer                        | Practical biochemistry          |
| G Tripathi                     | Enzyme biotechnology            |
| Walsh                          | Enzyme Reaction Mechanism       |
| Hammes                         | Enzyme catalysis and regulation |

January 2019 – June 2019

**M.Sc. Bioscience**

**Second Semester**

**Paper III: Instrumentation and Molecular Techniques**

Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words

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|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Unit-I</b>   | Centrifugation: Principle, techniques. Preparative, analytical and ultracentrifuges, sedimentation coefficient and factors affecting sedimentation coefficient. Application of centrifugation.<br>Photometry: Basic principles of colorimetry, UV- visible spectrophotometry & IR- spectrophotometry. Spectrofluometry<br>Atomic absorption spectroscopy: Principle, Instrumentation and applications               |
| <b>Unit-II</b>  | Microscopic techniques: light microscopy, phase-contrast microscopy, scanning and transmission electron microscopy, different fixation and staining techniques for EM, freeze-etch and freeze-fracture methods for EM, image processing methods in microscopy.                                                                                                                                                      |
| <b>Unit-III</b> | Chromatography: Paper and Thin Layer Chromatography. Gel filtration, Ion exchange chromatography and Affinity chromatography. Gas-liquid chromatography and HPLC.<br>Histochemical and immunotechniques: Detection of molecules using ELISA, RIA, western blot, immunoprecipitation, flow cytometry and immunofluorescence microscopy, detection of molecules in living cells, In situ localization; FISH and GISH. |
| <b>Unit-IV</b>  | Electrophoresis: Agarose, PAGE, 2D-E.<br>Radioactivity: GM counter, liquid Scintillation counter, solid Scintillation                                                                                                                                                                                                                                                                                               |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | counter, gamma counters.<br>Lyophilization: Principle, instrumentation and applications.<br>Microtomy: types, principle and applications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Lab Course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>• Verification of Beers Law</li> <li>• Determination of absorption maxima</li> <li>• Quantitative determination, Enzyme kinetics</li> <li>• Amino acid and carbohydrate separation by paper and TLC</li> <li>• Ion exchange and gel filtration chromatography</li> <li>• SDS Polyacralamide Gel Electrophoresis</li> <li>• DNA electrophoresis</li> <li>• Isoenzymes</li> <li>• Separation of sub-cellular organelles by differential centrifugation.</li> <li>• Isolation of DNA and Agarose gel Electrophoresis</li> <li>• Amplification of RAPD and AFLP markers.</li> <li>• Isolation of RNA and Electrophoresis of RNA on denaturing gels.</li> <li>• cDNA synthesis and cloning</li> <li>• Isolation of Protein and SDS-PAGE</li> <li>• In vitro DNA ligation, transformation of E. coli</li> <li>• Characterization of transformants: DNA gel electrophoresis, Restriction map analysis</li> </ul> |
| <b>Recommended Books:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• K Wilson and John Walker</li> <li>• RF Boyer</li> <li>• S Carson, H Miller and D Scott</li> <li>• TC Ford and J. M. Graham</li> <li>• R Baserga and D Malamud</li> <li>• T Chard</li> <li>• MD Bruch</li> <li>• BA Wallace and R William</li> <li>• J Sambrook, EF Rritsch and I Maniatis</li> <li>• PD Dabre</li> <li>• JD Watson, NH Hopkins, JW Roberts, JA Steitz and AM Weiner</li> <li>• J Darnell, H Lodish and D Baltimore</li> <li>• B Alberts, D Bray, J Lewis, M Raff, K Roberts and JD Watson</li> <li>• Benjamin Lewin</li> <li>• JM Walker and R Rapley</li> <li>• SB Primrose</li> </ul> | <ul style="list-style-type: none"> <li>Practical Biochemistry: Principles &amp; Techniques</li> <li>Biochemistry Laboratory: Modern Theory &amp; Techniques</li> <li>Molecular Biology Techniques: A Classroom Laboratory Manual</li> <li>An Introduction to Centrifugation</li> <li>Autoradiography: techniques and application</li> <li>An Introduction to Radioimmunoassay and Related Techniques , Volume 6</li> <li>NMR Spectroscopy Techniques</li> <li>Modern Techniques for Circular Dichroism and Synchrotron Radiation, Volume 1</li> <li>Molecular cloning: A Laboratory Manual</li> <li>Introduction to Practical Molecular Biology</li> <li>Molecular Biology of Gene (4<sup>th</sup> Edition)</li> <li>Molecular Cell Biology (2<sup>nd</sup> Edition)</li> <li>Molecular Biology of the Cell (2<sup>nd</sup> Edition)</li> <li>Gene VII</li> <li>Molecular Biology and Biotechnology</li> <li>Molecular Biotechnology</li> </ul>  |
| January 2019 – June 2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>M.Sc. Bioscience</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Second Semester</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>PAPER IV: BIOMETRY, COMPUTER AND SCIENTOMETRY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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| <p>Each theory paper will have questions divided into four sections, A, B, C &amp; D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Unit-I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Introduction to biostatistics. Types of biological data: data on different scales. Frequency distributions. Cumulative frequency distributions. Random sampling. Parameters and statistics. Measures of central tendency and dispersion: Mean, Median, Mode, Range, Variance and Standard deviation. Coefficient of variation. The effects of coding data. Data transformations: Log-transformation, Square-root transformation and Arcsine transformation. Distribution: normal and binomial. Probability: Basic laws of probability, addition law, multiplication law. Probability and frequency.                                                                         |
| <b>Unit-II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Statistical errors in hypothesis testing. Testing goodness of fit: Chi-square goodness of fit. Heterogeneity Chi-square. The 2 x 2 contingency table. One sample hypothesis. Two-sample hypothesis. Testing for difference between two means ( <i>t</i> -test). Testing for difference between two variances ( <i>F</i> -test). The paired sample <i>t</i> -test. Multiple-sample hypothesis (ANOVA): Single factor and two factors ANOVA. Multiple comparisons: Duncan's multiple-range tests. Simple linear regression. Regression vs. Correlation. Regression equation. Interpretations of regression functions. Simple linear correlation. The correlation coefficient. |
| <b>Unit-III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Introduction to MS-Office software: Word processing; Creating new document, Editing documents, Adding graphics to documents, Word tables. Management of Workbook & Worksheets; Applications, Features, Using formulas and functions, Features for Statistical data analysis, Excel-Tool Pack for data analysis; Generating charts/ graph. Presentation software; Working in PowerPoint, Creating new presentation, Working with slides.                                                                                                                                                                                                                                     |
| <b>Unit-IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Introduction to Internet and Applications. Basics of internet, e-mailing, Search engine – Google and Yahoo; Pubmed, Scopus, Web of Science, Google Scholar, Indian Citation Index, Science Citation Index (SCI), h-index, i-10-index. Journal Impact Factor (JIF). Introduction to Plagiarism and Cyber laws.                                                                                                                                                                                                                                                                                                                                                               |
| <b>Lab Course</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Exercises for data distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Exercises for computation of measures of central tendency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Exercises for computation of measures of variability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Computation of correlation coefficient, <i>r</i> , and regression constants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Data analysis by ANOVA and multiple-range tests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Hypothesis testing by <i>t</i> -test, <i>F</i> -test, and Chi-square test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Graphical presentation of data using a suitable package                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Statistical analysis of a data using a suitable package                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Preparation of document using a suitable package                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Preparation of slides using a suitable package                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Hands-on-practice for finding indices (SCI, H-index, i-10 index) for article using relevant database.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Books Recommended</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Campbell RC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Statistics for biologists                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Zar JH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Biostatistical Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Wardlaw AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Practical Statistics for Experimental Biologists                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|-----------------------------------|-----------------------------------------------------------------------------|
| Snedecor GW & Cochran WG          | Statistical Methods                                                         |
| Sokal RR & Rohlf FJ               | Introduction to Biostatistics                                               |
| Sumner M                          | Computers: Concepts & Uses                                                  |
| White R                           | How Computers Work                                                          |
| Cassel P <i>et al.</i>            | Inside Microsoft Office Professional                                        |
| Coleman P and Dyson P             | Mastering Internets                                                         |
| Gralla P                          | How the Internet Works                                                      |
| Shelly GB, Vermaat ME, Cashman TJ | Microsoft® 2007: Introductory Concepts and Techniques                       |
| Habraken J                        | Microsoft® Office 2003 All in One                                           |
|                                   | Microsoft® Office 2010 In Depth                                             |
| Gilmore B                         | Plagiarism: Why it happens, How to prevent it?                              |
| Buranen L and Roy AM              | Perspectives on Plagiarism and Intellectual Property in a Post-Modern World |
| Kumar Anupa P                     | Cyber Law                                                                   |
| Sood V                            | Cyber Law Simplified                                                        |

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| July 2019 – December 2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>M.Sc. Bioscience</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Third Semester</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Paper I: Molecular Plant Physiology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Unit-I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Membrane transport : Pumps; F-type H <sup>+</sup> -ATPase mitochondria, P-type PM H <sup>+</sup> -ATPase, V Type<br>H <sup>+</sup> -ATPase, and ABC type. Ion Channels; Voltage gated channels of K and Ca.<br>Water transport through Aquaporins.<br>Physiology of Mineral Nutrition: Molecular mechanism and regulation of K, Fe and Zn transport. Phosphorous nutrition and transport. Phytoremediation. Mineral toxicity |
| <b>Unit-II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Photosynthesis: Light absorption and energy conversion, photosystems I and II, ATP synthesis, Assimilation of carbon in C <sub>3</sub> , C <sub>4</sub> and CAM pathways, Photorespiration                                                                                                                                                                                                                                   |
| <b>Unit-III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Phytohormones: Structure, biosynthesis, molecular mechanisms of Auxin, Gibberellins, Cytokinin, Abscisic acid and Ethylene, Brassinosteroids                                                                                                                                                                                                                                                                                 |
| <b>Unit-IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Senescence and Programmed cell death: Senescence; Metabolism and regulation of pigment and nucleic acid, PGR regulation, SAG. PCD; Formation of TE and mobilization of cereal endosperm, Formation of aerenchyma. Signal transduction and PCD                                                                                                                                                                                |
| <b>Lab Course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Spectrophotometric determination of chlorophyll-a, chlorophyll-b and total chlorophyll in young, mature and senescent leaves                                                                                                                                                                                                                                                                                                 |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Kinetin estimation by cucumber cotyledons expansion bioassay                                                                                                                                                                                                                                                                                                                                                                 |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Auxin bioassay using wheat coleoptiles                                                                                                                                                                                                                                                                                                                                                                                       |

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|-----|----------------------------------------------------------------------------------------------|
| 4.  | GA bioassay by inducing <i>de-novo</i> synthesis of Amylase in de-embryonated seeds of wheat |
| 5.  | Estimation of mono, di and total phenols in the young and aged leaves                        |
| 6.  | Estimation of Guaiacol peroxidase activity in fresh and aged seeds                           |
| 7.  | Determination of Superoxide dismutase levels in the healthy and deteriorated seeds           |
| 8.  | Estimation of metal toxicity induced changes in the AOS levels in leaf tissues               |
| 9.  | Determination of Nitrate reductase activity in leaf tissues                                  |
| 10. | Separation of isozymes of SOD and GPX                                                        |

**Recommended Books:**

|                                    |                                                   |
|------------------------------------|---------------------------------------------------|
| Fosket DF                          | Plant Growth & Development                        |
| Foyer CH                           | Photosynthesis                                    |
| Bacon Ke                           | Photosynthesis: Photobiochemistry&Photobiophysics |
| Leopold AC &Kriedemann PE          | Plant Growth & Development                        |
| Moore TC                           | Biochemistry & Physiology of Hormones             |
| L Taiz & E Zeiger                  | Plant Physiology                                  |
| BB Buchanan, W Gruissem & RL Jones | Biochemistry & Molecular Biology of Plants        |
| MB Wilkins                         | Advanced Plant Physiology                         |
| JA Hopkins                         | Introduction to Plant Physiology                  |
| FB Salisbury& CW Ross              | Plant Physiology                                  |
| Hans-Walter Heldt                  | Plant biochemistry & Molecular Biology            |

July 2019 – December 2019

**M.Sc. Bioscience**

**Third Semester**

**Paper II: Ecology and Environmental Biology**

Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words

|                 |                                                                                                                                                                                                                                                                                                               |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Unit-I</b>   | Ecosystem: Concept, Components and types. Productivity, Ecological energetics, Energy flow in ecosystem, Energy flow models, Ecological pyramids, Food chain, Food web. Ecological succession, Ecological niche.                                                                                              |
| <b>Unit-II</b>  | Aquatic ecosystem: Biotic and abiotic components, lentic and lotic ecosystems, wetlands.<br>Terrestrial ecosystems: Forest types of India with special reference to Chhattisgarh. Natural and plantation (artificial) forests, Agroforestry, Social forestry, National parks and Sanctuaries in Chhattisgarh. |
| <b>Unit-III</b> | Environmental pollution: Definition, types (air, water, soil, noise, thermal & radioactive), causes, effects and control.<br>Solid waste management: Causes, effects and control measures of urban and industrial wastes.<br>Disaster management: Floods, earthquake, cyclone and landslides.                 |
| <b>Unit-IV</b>  | Biodiversity, ex-situ and in- situ conservation. Intellectual property right (IPR) with special reference to India. Natural resources: Water, Forest and Medicinal plants.                                                                                                                                    |

|                           |                                                                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Lab Course:</b>        |                                                                                                                                        |
| 1.                        | To determine the minimum size of the quadrat by 'Specis –Area-Curve' method                                                            |
| 2.                        | To study the community by quadrat method by determining frequency, density and abundance of different species present in the community |
| 3.                        | Chromatographic separation of chlorophyll pigments in leaf                                                                             |
| 4.                        | Measurement of pH and Total alkalinity in water                                                                                        |
| 5.                        | Measurement of Free carbon dioxide and dissolved oxygen in given water                                                                 |
| 6.                        | Identification and drawing of at least 15 medicinal plants                                                                             |
| <b>Recommended Books:</b> |                                                                                                                                        |
| A Beattie and PR Ehrlich  | Biodiversity, 2001                                                                                                                     |
| EP Odum                   | Fundamentals of Ecology, 2nd ed., 494-496                                                                                              |
| EP Odum                   | Basic Ecology (Philadelphia: Saunders, 1983), 518.                                                                                     |
| PD Sharma                 | Ecology and Environment, 2009, Rastogi Publications                                                                                    |
| M Calver                  | Environmental Biology, Murdoch University, Western Australia                                                                           |
| Aggarwal                  | Concept of Ecology                                                                                                                     |
| NS Subrahmanyam           | Ecology, Narosa Publications                                                                                                           |

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| July 2018 – December 2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>M.Sc. Bioscience</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Third Semester</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Paper III: Animal Physiology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                       |
| Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words |                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Unit-I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Circulation:</b> Composition of blood, Cell types, Hemopoiesis, Structure and function of hemoglobin - Oxygen and carbon dioxide transport, Cardiac cycle and its regulation. Blood pressure, Blood Coagulation,<br><b>Respiration:</b> Mechanism and regulation of breathing, Factors influencing oxygen uptake, Diving and high altitude adaptations. Measurement of metabolic rate and $Q_{10}$ |
| <b>Unit-II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Nervous system:</b> Mechanisms of conduction along axon and across synapses, Nernst equation and measurement of action potential, Neurotransmitters, Types and physiology of reflexes.<br><b>Myology:</b> Types of muscles, Ultrastructure, mechanism and regulation of contraction of skeletal muscle.                                                                                            |
| <b>Unit-III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Endocrinology:</b> Communication (autocrine, paracrine, neuroendocrine and endocrine) between cells and within the cells, Classification of hormones, General principles of nature and molecular aspects of hormone action, Hormone receptors, Structure and physiology of following endocrine glands: hypothalamus, pituitary, thyroid and parathyroid, pancreas, adrenal, and pineal.            |
| <b>Unit-IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Hormones, Reproduction and Pheromones:</b> Hormones in reproduction, Structure and function of testis and ovary, sexual cycles, Mechanism of action of                                                                                                                                                                                                                                             |



|  |                                                                                                                                                                                                    |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | gonadotropins; Types of pheromones, primer pheromone, releaser pheromone, imprinting pheromone, Lee-Boot effect, Bruce effect, Whitten effect, Human pheromones, Sex pheromones in insect control. |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Lab Course (8-10 out of the following):**

|     |                                                                                                             |
|-----|-------------------------------------------------------------------------------------------------------------|
| 1.  | Examination of RBC in Piscine/Avian/Human blood.                                                            |
| 2.  | Examination of WBC in Piscine/Avian/Human blood.                                                            |
| 3.  | Differential leukocyte counts in Human blood.                                                               |
| 4.  | Determination of Hb/Hct/ Absolute values in Piscine/Avian/Human blood.                                      |
| 5.  | To determine prevalence of different types of polymorphs in human blood (Based on Arneht's classification). |
| 6.  | Demonstration of hemin crystal.                                                                             |
| 7.  | To determine absolute Eosinophil count in Human blood                                                       |
| 8.  | To determine blood pressure in different body position [standing, supine, seating position]                 |
| 9.  | To determine the effect of exercise on blood pressure                                                       |
| 10. | Computation of mean arterial pressure                                                                       |
| 11. | To evaluate peak expiratory flow rate [lung efficiency] as function of age and gender                       |
| 12. | Assessment of short interval time perception as function of gender                                          |
| 13. | Assessment of reaction time using suitable method                                                           |
| 14. | Study of histology of endocrine glands                                                                      |
| 15. | ELISA/ RIA for T4, T3 & TSH                                                                                 |
| 16. | ELISA/ RIA for Cortisol and Melatonin                                                                       |
| 17. | Effects of surfacing prevention on opercular activity in <i>C. batrachus/ H. fossilis</i>                   |
| 18. | To study phototactic behavior of fishes                                                                     |
| 19. | To study different stages of melanophores in scales of the live fish                                        |
| 20. | To study the effect of temperature on melanophores in scales of live fish                                   |
| 21. | To observe the effect of adrenalin [neurotransmitter] on melanophores                                       |
| 22. | To study chemotactic behavior of organisms present in natural habitat                                       |

**Books Recommended:**

|                                  |                                                                  |
|----------------------------------|------------------------------------------------------------------|
| PJ Bentley                       | Comparative vertebrate endocrinology                             |
| WF Ganong                        | Review of medical physiology                                     |
| A Gorbman & HA Bern              | A textbook of endocrinology                                      |
| AC Guyton                        | Textbook of medical physiology                                   |
| WS Hoar & DJ Randall             | Fish physiology [Series]                                         |
| CR Martin                        | Endocrine physiology                                             |
| D McFarland                      | Animal behaviour, psychobiology, ethology & evolution            |
| CL Prosser                       | Adaptational biology: molecules to organisms                     |
| CL Prosser & FA Brown            | Comparative animal physiology                                    |
| K Schmidt-Nielsen                | Animal physiology: Adaptation & environment                      |
| CD Turner & JT Bagnara           | General endocrinology                                            |
| JD Wilson & DW Foster            | Textbook of endocrinology                                        |
| D Randall, W Burggren & K French | Animal Physiology: Mechanisms and adaptations                    |
| TD Wyatt                         | Pheromones and animal behavior: Communication by smell and taste |
| G Litwack                        | Pheromones                                                       |

July 2019 – December 2019

**M.Sc. Bioscience**

**Third Semester**

**Paper IV: Developmental Biology and Evolution**

Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be

answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words

|                 |                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Unit-I</b>   | Gametogenesis in animals. Molecular events during fertilization. Activation of egg metabolism. Cleavage patterns and fat maps. Regulation of Cleavage cycle. Cleavage and nuclear activity.                                                                                                                                                                                                                |
| <b>Unit-II</b>  | Concepts of determination, competence, induction and differentiation. Determination in <i>Caenorhabditis elegans</i> . Germ cell determination, migration and differentiation. Totipotency and nuclear transfer experiments. Embryonic induction. Formation of vulva in <i>C. elegans</i> . Mechanism of differentiation in <i>Dictyostelium</i> .                                                         |
| <b>Unit-III</b> | Morphogenetic determinants in egg cytoplasm. Role of maternal contributions in early embryonic development. Genetic regulation of early embryonic development in <i>Drosophila</i> . Homeotic genes. Genetic interaction during differentiation. Hox genes and limb patterning.                                                                                                                            |
| <b>Unit-IV</b>  | Concepts and theories of organic evolution. The processes of Evolutionary change- Genetic drift, Natural selection and the Hardy-Weinberg equilibrium. Speciation. Molecular evolution and origin of life. Evolution of Prokaryotes and Eukaryotes. A brief outline of the evolutionary history of Metazoans including-Evolution of tissue grade, coelomic body plans and Chordates. Evolution of Mankind. |

**Lab Course:**

|     |                                                        |
|-----|--------------------------------------------------------|
| 1.  | Study of developmental stages in Snail/Amphibian/Chick |
| 2.  | Study on <i>Drosophila</i> development                 |
| 3.  | Role of hormones in metamorphosis and development      |
| 4.  | Effect of Vitamin A on tail regeneration in frog       |
| 5.  | Biochemical estimations in developing embryos          |
| 6.  | Structure of hen's egg and its vital staining          |
| 7.  | Demonstration of cell death by vital staining          |
| 8.  | Study of permanent slides of chick embryos             |
| 9.  | Histological studies of Gametogenesis                  |
| 10. | Induced breeding in fishes                             |

**Recommended Books**

|                           |                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------|
| Alberts <i>et al.</i>     | Molecular Biology of the Cell                                                             |
| SF Gilbert                | Developmental Biology                                                                     |
| Lewin Benjamin            | Gene VIII                                                                                 |
|                           | Developmental Genetics                                                                    |
| PO Moody                  | Introduction to Evolution, 1970, Harper and Row                                           |
| Dobzhansky et al.         | Evolution, W. H. Freeman. New York                                                        |
| SW Fox and K Dose         | Molecular Evolution and the Origin of Life, 1972, W.H. Freeman & Co Ltd.                  |
| FJ Ayala and JW Valentine | Evolving: The theory and processes of Organic evolution, 1979, Benjamin/Cummings Pub. Co. |
| EO Dodson                 | Evolution: Process and Product                                                            |
| MW Strickberger           | Evolution, 1979, James and Barlett International                                          |

January 2020 – June 2020

**M.Sc. Bioscience**

| <b>Fourth Semester</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Paper I: Seed Science</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                   |
| Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words |                                                                                                                                                                                                                                                                                                                                   |
| <b>Unit-I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Seed development: Phases of development, Maturation; accumulation of desiccation related compounds, ABA regulation. Seed Dormancy: Physiological and molecular basis, Testa, Endosperm, Aleurone layers & Hormonal cross talk in dormancy. Alleviation of dormancy; Protein oxidation. Dormancy breaking chemicals and mechanism. |
| <b>Unit-II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Seed Germination: Pre-germination, Germination and post germination Metabolism. Reactivation of the metabolic pathway. Cellular repair. Hormonal regulation and metabolism; GA & ABA, ROS metabolism.                                                                                                                             |
| <b>Unit-III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Seed Ageing: Seed storage physiology: Orthodox & Recalcitrant; ROS metabolism, Mechanism of desiccation tolerance, dehydrins/LEA/peroxiredoxin, HSPs, Sugars. Longevity markers; $\beta$ - mercaptopyruvatesulfurtransferase (MST), L-isoaspartyl O-methyltransferase (PIMT).                                                     |
| <b>Unit-IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Seed Technology: Priming technology; biochemical and molecular aspects. Cryobanks, Cryopreservation of seed and embryo; Cryoprotective molecules, Vitrification, Encapsulation and Drying. Synthetic seeds.                                                                                                                       |
| <b>Lab Course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                   |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Hydro and chemical priming effect on seed germination.                                                                                                                                                                                                                                                                            |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | To perform accelerated ageing in seeds and its comparison with the control.                                                                                                                                                                                                                                                       |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Testing seed viability and vigour by :                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (a) germination                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (b) triphenyl tetrazolium test                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (c) Specific conductance of leachates and                                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (d) Germination Index                                                                                                                                                                                                                                                                                                             |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Lipid peroxidation in ageing seeds.                                                                                                                                                                                                                                                                                               |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Extraction and estimation of seed proteins, carbohydrates and lipids.                                                                                                                                                                                                                                                             |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Quantitative and qualitative estimation of antioxidant enzymes in seeds:                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (a) SOD                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (b) Peroxidase and                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (c) catalase                                                                                                                                                                                                                                                                                                                      |
| 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Peroxidase assay by tissue printing method.                                                                                                                                                                                                                                                                                       |
| 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Seed cryopreservation technique and post-cryopreservation recovery.                                                                                                                                                                                                                                                               |
| 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Separation and determination of Molecular weight of seed proteins by SDS-PAGE.                                                                                                                                                                                                                                                    |
| <b>Recommended Books</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                   |
| JD Bewley& M Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Physiology & Biochemistry of Seeds, Vol. I & II                                                                                                                                                                                                                                                                                   |
| JD Bewley& M Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Seeds : Physiology of Development & Germination                                                                                                                                                                                                                                                                                   |
| Black <i>et al.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Desiccation and Survival of Plants : Dying without Drying                                                                                                                                                                                                                                                                         |
| PK Agrawal & M Dadlani                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Techniques in Seed Science & Technology                                                                                                                                                                                                                                                                                           |
| FAO Report 113                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Ex-situ storage of seeds, pollen & <i>in vitro</i> cultures                                                                                                                                                                                                                                                                       |
| Copeland & McDonald                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Seed Science & Technology                                                                                                                                                                                                                                                                                                         |

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| RL Agrawal            | Seed Technology                                           |
| J Kigel& G Galili     | Seed Development & Germination                            |
| W Ayadet <i>al.</i>   | Molecular Genetic Techniques for Plant Genetic resources  |
| EE Benson             | Plant Conservation Biotechnology                          |
| DE Fosket             | Plant Growth & Development                                |
| RB Taylorson          | Recent Advances in the Development & Germination of Seeds |
| McDonald & Copeland   | Seed Technology Laboratory Manual                         |
| Khullar& RC Thapliyal | Forest Seed                                               |
| L Schmidt             | Guide to Handling of Tropical & Sub-tropical Forest Seed  |

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| January 2020 – June 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>M.Sc. Bioscience</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Fourth Semester</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Paper II: Plant Biotechnology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>Each theory paper will have questions divided into four sections, A, B, C &amp; D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Unit-I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>Introduction to cell and tissue culture, tissue culture as a technique to produce novel plants and hybrids<br/>                     Tissue culture media (composition and preparation)<br/>                     Initiation and maintenance of callus and suspension culture; single cell clones<br/>                     Organogenesis; somatic embryogenesis; transfer and establishment of whole plants in soil<br/>                     Shoot tip culture: Rapid clonal propagation and production of virus free plant.</p>                                                           |
| <b>Unit-II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>Embryo culture and embryo rescue.<br/>                     Anther, pollen and ovary culture for production of haploid plants and homozygous lines.<br/>                     Protoplast isolation, culture and fusion; selection of hybrid cells and regeneration of hybrid plants; symmetric and asymmetric hybrids, cybrids.<br/>                     Germplasm conservation: Cryopreservation and slow growth cultures.<br/>                     Chloroplast Transformation: Advantages, vectors, success with tobacco and potato.</p>                                                 |
| <b>Unit-III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>Plant transformation technology: Basis of tumor formation, Mechanism of DNA transfer, Features of Ti and Ri plasmids, role of virulence genes, use of Ti and Ri as vectors, binary vectors, markers, use of reporter genes, 35S and other promoters, use of scaffold attachment regions, multiple gene transfers, particle bombardment, electroporation, microinjection<br/>                     Applications of plant transformation for productivity and performance: herbicide resistance, insect resistance, Bt genes, Non-Bt like protease inhibitors &amp; amylase inhibitors,</p> |

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|                                                                                                                                                                                                                                                                               | virus resistance, nucleocapsid gene, disease resistance, PR (Pathogenesis Related) proteins, nematode resistance, abiotic stress, male sterile lines.                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Unit-IV</b>                                                                                                                                                                                                                                                                | Metabolic Engineering and Industrial Products: plant secondary metabolites, control mechanisms and manipulation of phenylpropanoid pathway, shikimate pathway, biodegradable plastics, therapeutic proteins, antibodies, edible vaccines<br>Molecular Markers– RFLP maps, linkage analysis, RAPD markers, STS (Sequence Tagged Strands), microsatellites, SCAR (Sequence characterized amplified regions), SSCP (Single strand conformational polymorphism), AFLP, map based cloning, molecular marker assisted selection. |
| <b>Lab Course:</b>                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 1.                                                                                                                                                                                                                                                                            | Preparation of culture media                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 2.                                                                                                                                                                                                                                                                            | To perform meristem/ bud culture, shoot multiplication & rooting phenomenon                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.                                                                                                                                                                                                                                                                            | To study organogenesis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 4.                                                                                                                                                                                                                                                                            | To perform somatic embryogenesis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 5.                                                                                                                                                                                                                                                                            | To study the process of plantlet acclimatization                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 6.                                                                                                                                                                                                                                                                            | To perform embryo culture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 7.                                                                                                                                                                                                                                                                            | To study the process of anther culture development                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 8.                                                                                                                                                                                                                                                                            | Study of molecular markers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 9.                                                                                                                                                                                                                                                                            | Extraction of DNA from plant cultures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 10.                                                                                                                                                                                                                                                                           | Estimation and separation of DNA using agarose gel electrophoresis and spectrophotometer                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Recommended Books:</b>                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| MK Razdan                                                                                                                                                                                                                                                                     | Introduction to Plant Tissue Culture, 2 <sup>nd</sup> Edition, Oxford & IBH Publishing Co. Pvt Ltd, 2010                                                                                                                                                                                                                                                                                                                                                                                                                   |
| IK Vasil                                                                                                                                                                                                                                                                      | Plant Cell and Tissue Culture; Springer Publication, 1994                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| SS Bhojwani and MK Razdan                                                                                                                                                                                                                                                     | Plant Tissue Culture; Elsevier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| TJ Fu, G Singh and WR Curtis                                                                                                                                                                                                                                                  | Plant Cell and Tissue Culture for the production of Food Ingredients. Kluwer Academic/ Plenum Press, 1999                                                                                                                                                                                                                                                                                                                                                                                                                  |
| J Hammond, P McGarvey and V Yusibov                                                                                                                                                                                                                                           | Plant Biotechnology, Springer Verlag, 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| HS Chawla                                                                                                                                                                                                                                                                     | Biotechnology in Crop Improvement, International Book Distributing Co., 1998                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| HS Chawla                                                                                                                                                                                                                                                                     | Introduction to plant biotechnology. Oxford & IBH Publishing Co. Pvt. Ltd., 2000                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| BD Singh                                                                                                                                                                                                                                                                      | Biotechnology- Expanding Horizons. 1 <sup>st</sup> Edition, Kalyani Publisher, Ludhiana, 2004                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Roberta H Smith                                                                                                                                                                                                                                                               | Plant Tissue Culture: Techniques and Experiments, 2 <sup>nd</sup> Edition: Academic Press, 2000                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Kyte L <a href="http://www.amazon.com/Plants-Test-Tubes-Introduction-Micropropagation/dp/0881923613/ref=pd_sim_b_1/184-6352969-4068647">http://www.amazon.com/Plants-Test-Tubes-Introduction-Micropropagation/dp/0881923613/ref=pd_sim_b_1/184-6352969-4068647</a> and Kley J | Plants from Test Tubes: An Introduction to Micropropagation, 3 <sup>rd</sup> Edition, Timber Press, 1996                                                                                                                                                                                                                                                                                                                                                                                                                   |
| M Smith                                                                                                                                                                                                                                                                       | Plant Propagator's Bible, 1 <sup>st</sup> Edition, Rodale                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|           |                                                  |
|-----------|--------------------------------------------------|
|           | Books, 2007                                      |
| MR Ahuja  | Micropropagation of Woody Plants, Springer, 1993 |
| YPS Bajaj | Trees III, Springer, 1991                        |
| YPS Bajaj | Trees IV, Springer, 1996                         |

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| January 2020 – June 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                             |
| <b>M.Sc. Bioscience</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                             |
| <b>Fourth Semester</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                             |
| <b>Paper III (Special Paper-A) Parasitology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                             |
| Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words |                                                                                                                                                                                                                                                                                                                                                             |
| <b>Unit-I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Parasites and parasitism. The Infection process: Modes of Parasite transmission, invasion, migration within host, maintaining station, obtaining nutrients and resisting host attack. Concept of Disease: Inflammation and Repair, Degeneration, Necrosis. Mechanism of Disease transmission with particular reference to vectors. Vector control measures. |
| <b>Unit-II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | General organization and life cycle patterns of Protozoa; Epidemiology, pathogenesis, diagnosis and control of major human diseases, such as- Malaria, Leishmaniasis and Trypanosomiasis.                                                                                                                                                                   |
| <b>Unit-III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | General organization and life cycle patterns of Trematodes and Cestodes; Epidemiology, pathogenesis, diagnosis and control of major human diseases, such as- Schistosomiasis and Hydatidosis. Arthropod- related ectoparasitic diseases: Ticks, mites and flies.                                                                                            |
| <b>Unit-IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | General Organization and life cycle patterns of Acanthocephala and Nematoda; Epidemiology, pathogenesis, diagnosis and control of major nematode diseases, such as- Ascariasis, Ancylostomiasis and Filariasis. Biology of plant parasitic nematodes.                                                                                                       |
| <b>Lab Course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                             |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Identification and comments on permanent mounts of parasitic organisms                                                                                                                                                                                                                                                                                      |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Host examination for parasites; preparation of permanent slides and identification                                                                                                                                                                                                                                                                          |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Histology/Histopathology/Histochemistry by routine and differential staining                                                                                                                                                                                                                                                                                |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Biochemistry of parasites and pathophysiology of the hosts                                                                                                                                                                                                                                                                                                  |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Root knot nematodes: Extraction and isolation (Cobb's sieving and decantation method and Baerman's Funnel technique), preparation of perennial pattern mounts                                                                                                                                                                                               |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Detection of blood parasites: Malarial parasite                                                                                                                                                                                                                                                                                                             |
| 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Macroscopic and microscopic examination of stool samples, concentration methods                                                                                                                                                                                                                                                                             |
| <b>Recommended Books:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                             |
| KD Chatterjee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Parasitology (Protozoology and Helminthology) in Relation to Clinical Medicine. 9 <sup>th</sup> Ed. KD Chatterjee, 236 pages, 1973                                                                                                                                                                                                                          |
| TC Cheng                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | General Parasitology. Second Ed., Academic Press College Division, University of California, 827 pages, 1986                                                                                                                                                                                                                                                |

|                              |                                                                                                                |
|------------------------------|----------------------------------------------------------------------------------------------------------------|
| CKJ Panicker                 | Textbook of Medical Parasitology. Jaypee Brothers, Medical Publishers, 248 pages, 2007                         |
| TV Rajan                     | Textbook of Medical Parasitology. BI Publications, New Delhi, 2009                                             |
| D Rollinson, and SI Hay, Ed. | Advances in Parasitology; Volumes 1 to 78, Elsevier, 1963-2012.                                                |
| JD Smyth and DW Halton       | The Physiology of Trematodes. Academic Press, Second Edition, 446 pages, 1983                                  |
| DJ Wyler, Ed.                | Modern Parasite Biology: Cellular, Immunological and Molecular Aspects. WH Freeman and Company, New York, 2003 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| January 2020 – June 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                |
| <b>M.Sc. Bioscience</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                |
| <b>Fourth Semester</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                |
| <b>Paper III (Special Paper-B) Basic Chronobiology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                |
| Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words |                                                                                                                                                                                                                                                                                                                                                                |
| <b>Unit-I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Historical developments in chronobiology. Different types of geophysical and biological cycles with examples of circadian rhythms. Quantification of biological rhythms - Average, amplitude, phase, and period. Brief introduction to time series analysis. Methods of time series analyses: COSINOR, AUTOCORRELATION, FOURIER, MESA, CHI-SQUARE PERIODOGRAM. |
| <b>Unit-II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Characteristics of circadian rhythm: Free-run, Temperature and nutrition compensation, and Entrainment. Zeitgeber Time (ZT) and Circadian Time (CT). After-effects and Aschoff's rule. Aging and circadian clocks. Photoperiodism. Plant Rhythms                                                                                                               |
| <b>Unit-III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Synchronization (=Entrainment) and masking. Entrainment by single light pulse, complete and skeleton photoperiods. Zeitgebers for circadian clocks. Key properties of a Zeitgeber. Photic and non-photic zeitgebers. Mechanisms of entrainment. Phase response curves (PRC), phase transition curves, strong and weak PRC.                                     |
| <b>Unit-IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Circadian pacemakers in insects with special reference to <i>Drosophila</i> . Suprachiasmatic nucleus as mammalian circadian clock. Multi-oscillatory organization: master and slave oscillators, morning and evening oscillators, pacemaker and peripheral oscillators. Adaptive significance of circadian rhythms. Social consequence of circadian rhythms.  |
| <b>Lab Course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Terminology in Chronobiology                                                                                                                                                                                                                                                                                                                                   |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Study of locomotor activity rhythm in suitable animal models                                                                                                                                                                                                                                                                                                   |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Actogram construction of locomotor activity of suitable animal models                                                                                                                                                                                                                                                                                          |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Study of phase shift in circadian rhythm in a suitable variable, such as locomotor activity                                                                                                                                                                                                                                                                    |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Construction of Cosinor Curves using Mesor (M), amplitude (A) and acrophase/ peak ( $\emptyset$ ) of circadian,                                                                                                                                                                                                                                                |

|    |                                                                                                            |
|----|------------------------------------------------------------------------------------------------------------|
|    | and other low and high frequency rhythms                                                                   |
| 6. | Computation of period ( $\tau$ ), phase angle ( $\Psi$ )                                                   |
| 7. | Circadian changes in volume of nuclei in onion peel ( <i>Allium cepa</i> ) cells (microscopic observation) |
| 8. | Observation of leaf movement of a plant on circadian and longitudinal time scales                          |
| 9. | Periodogram, amount of activity and spectral analysis of rhythm data using TSA-Cosinor software            |

**Recommended Books:**

|                                       |                                                                                                          |
|---------------------------------------|----------------------------------------------------------------------------------------------------------|
| MJ Berridge                           | Biochemical oscillations and cellular rhythms. The molecular bases of periodic and chaotic behaviour     |
| E Bunning                             | The physiological clock                                                                                  |
| FH Columbus                           | Trends in chronobiology                                                                                  |
| G Cornelissen & F Halberg             | Introduction to chronobiology                                                                            |
| JC Dunlap, JJ Loros & PJ DeCoursey    | Chronobiology: Biological timekeeping                                                                    |
| JC Hall                               | Genetics and molecular biology of rhythms in <i>Drosophila</i> and other insects                         |
| PJ Lumsden & AJ Millar                | Biological rhythms and photoperiodism in plants                                                          |
| JD Palmer                             | The living clock                                                                                         |
| AK Pati                               | Chronobiology: The dimension of time in biology and medicine; PINSA (Biological Sciences), December 2001 |
| AK Pati (Ed.)                         | Chronobiology                                                                                            |
| DS Saunders                           | An introduction to biological rhythms                                                                    |
| B Thomas & D Vince-Prue               | Photoperiodism in plants                                                                                 |
| V Kumar (Ed.)                         | Biological rhythms                                                                                       |
| MK Chandrashekar                      | Time in the Living World                                                                                 |
| AT Winfree                            | The Geometry of Biological Time                                                                          |
| MC Moore-Ede, FM Sulzman, & CA Fuller | The clocks that time us, Harvard University Press, 1982                                                  |
| DS Saunders                           | Insect clocks, Pergamon, 2002                                                                            |

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| January 2020 – June 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                 |
| <b>M.Sc. Bioscience</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                 |
| <b>Fourth Semester</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                 |
| <b>Paper IV (Special Paper-A) Immunology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                 |
| Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words |                                                                                                                                                                                                                                                                                                                 |
| <b>Unit-I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Generation of diversity in BCR and TCR. Light and heavy chain gene recombination. Recombination Signal sequences. Heavy chain constant region genes. Class switching. Membrane and secreted immunoglobulins. Organization and arrangement of T-cell receptor genes.                                             |
| <b>Unit-II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Synthesis and production of immunoglobulins. Monoclonal antibody. Designer antibody. Regulation of immune response by antigen, antibody, immune complex, MHC and cytokines. Immunity to infections. Immunological tolerance. Nutrition and Immune response.                                                     |
| <b>Unit-III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Principles of Immunodiagnosis. Antigen-antibody interactions. Precipitation reactions. Haemagglutination. Complement fixation test. Direct and Indirect immunofluorescence. Radio labeled and Enzyme linked assays. Immunoblotting. Isolation of pure antibodies. Assay for complement. Isolation of lymphocyte |



|                                     |                                                                                                                                                                                                                                                    |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     | population. Effector cell assays. Flow cytometry. Plaque forming cell assay, ELISPOT assay, lymphocyte stimulation test, migration inhibition assays, cytotoxic assay. Immunodiagnosis of parasitic diseases.                                      |
| <b>Unit-IV</b>                      | Immunoprophylaxis: Principles of vaccination. Immunization practices. Vaccines against important bacterial, protozoan and parasitic diseases. DNA vaccines; passive prophylactic measures. Viral vaccines and antiviral agents. Parasite vaccines. |
| <b>Lab Course:</b>                  |                                                                                                                                                                                                                                                    |
| 1.                                  | Preparation of Parasite Antigen and analysis by PAGE                                                                                                                                                                                               |
| 2.                                  | Immunizations and production of antibody                                                                                                                                                                                                           |
| 3.                                  | Antigen antibody reaction by Double Diffusion, Counter current and IEP, RID and EIA                                                                                                                                                                |
| 4.                                  | Western Blot Analysis                                                                                                                                                                                                                              |
| 5.                                  | Immunodiagnosis using commercial kits                                                                                                                                                                                                              |
| <b>Recommended Books:</b>           |                                                                                                                                                                                                                                                    |
| RA Goldsby, TJ Kindt and BA Osborne | Kuby's Immunology                                                                                                                                                                                                                                  |
| E Benjamini, R Coico and G Sunshine | Immunology-A short Course                                                                                                                                                                                                                          |
| Roitt, Brostoff and Male            | Immunology                                                                                                                                                                                                                                         |
| William Paul                        | Fundamentals of Immunology                                                                                                                                                                                                                         |
| Stewart Snell                       | Immunology, Immunopathology and Immunity                                                                                                                                                                                                           |
| Elgert                              | Understanding Immune System                                                                                                                                                                                                                        |

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| January 2020 – June 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>M.Sc. Bioscience</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Fourth Semester</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Paper IV (Special Paper-B) Applied Chronobiology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Unit-I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Molecular mechanisms underlying clock functions in organisms: Autoregulatory transcriptional feedback loops; Circadian clock mutant types in <i>Drosophila</i> ( <i>per</i> , <i>tim</i> , <i>dbt</i> , <i>dclock</i> , <i>cycle</i> , <i>vriille</i> , <i>pdf</i> , <i>lark</i> , <i>takeout</i> ), <i>Neurospora</i> , cyanobacteria, mouse, and humans. Temporal expression pattern of clock genes, Regulation of expression of clock genes, Expression patterns under constant light and darkness; Autonomous functions of clock genes in peripheral tissues. Techniques involve in molecular mechanism of clock functions. |
| <b>Unit-II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Human circadian organization: Methods to study human circadian rhythm; Free-running rhythms in humans, Constant routine protocol, and Forced desynchronization protocol. Cronotypes and its assiment methods. Marker                                                                                                                                                                                                                                                                                                                                                                                                            |

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|                                    | rhythms in humans: Core body temperature (CBT), melatonin, and cortisol. Sleep-wake alertness and performance rhythms in humans.                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Unit-III</b>                    | Circadian rhythms and human health: Chronopharmacology; Basics of chronopharmacology – clinical chronopharmacology – circadian dependence of drug pharmacokinetics. Chronotherapy; Application of chronotherapy in treatment of cancer, cardiovascular diseases, allergies, asthma, and circadian rhythm sleep disorders (for example, DSPS and ASPS) & mood disorders (SAD).                                                                                                                                                              |
| <b>Unit-IV</b>                     | Circadian rhythms in occupational and travel stresses: Shift work; Types of shift system, direction and frequency of shift rotation, Effect on rhythm parameters, Desynchronization of circadian rhythm, Consequences on sleep, Psychosocial problems, Clinical and non-clinical problems. Shift work tolerance/ intolerance. Shift optimization: Nap, Bright light therapy, Melatonin therapy.<br>Jet lag: Consequences of jet lag; direction asymmetry & variable asymmetry; Approaches to jet lag alleviation.<br>Sports Chronobiology. |
| <b>Lab Course:</b>                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 1.                                 | Study of circadian rhythms in objective/subjective variables in human subjects.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2.                                 | Chronotyping in human population.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3.                                 | Study of circadian rhythm in the rest-activity of humans by using wrist actigraphy.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 4.                                 | Study of circadian rhythm in blood pressure of humans by using Ambulatory Blood Pressure Monitor.                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 5.                                 | Circadian variations in RBC and WBC in suitable animal models.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 6.                                 | Circadian rhythm in cortisol and melatonin by ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 7.                                 | Computation of mid-sleep and social jetlag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 8.                                 | Observation of functional status of in-built alarm clock in humans.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Recommended Books:</b>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| JC Dunlap, JJ Loros & PJ DeCoursey | Chronobiology: Biological timekeeping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| JC Hall                            | Genetics and molecular biology of rhythms in <i>Drosophila</i> and other insects                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| WJM Hrushesky                      | Circadian cancer therapy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| BG Katzung                         | Basic and clinical pharmacology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| G Klein and P Becker               | Farewell to the internal clock: a contribution in the field of Chronobiology                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| AK Pati                            | Chronobiology: The dimension of time in biology and medicine; PINSA (Biological Sciences), December 2001                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| AK Pati, Ed.                       | Chronobiology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| TT Postolache                      | Sports Chronobiology: An issue of clinics in sports medicine                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| D Purves <i>et al.</i>             | Molecular mechanisms of biological clocks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| PH Redfern and B Lemmer            | Physiology and pharmacology of biological rhythms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| R Refinetti                        | Circadian Physiology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| A Reinberg                         | Clinical chronopharmacology: Concepts, kinetics, applications                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| A Sehgal                           | Molecular biology of circadian rhythms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| LE Scheving                        | Chronobiotechnology and chronobiological engineering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Y Touitou <i>et al.</i>            | Handbook of medical chronobiology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

# Pt. Ravishankar Shukla University, Raipur

## M. Sc. BIOCHEMISTRY

### Scheme and Syllabi of Examination for SESSION 2018-20

| July 2018-December 2018 |                                                                                                                                |            |             |           |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------|-------------|-----------|
|                         | First Semester                                                                                                                 | Marks      |             | Credit    |
| Paper                   | Title of Paper                                                                                                                 | (External) | (Internal)* |           |
| I                       | Cell Biology                                                                                                                   | 80         | 20          | 4         |
| II                      | Biomolecules                                                                                                                   | 80         | 20          | 4         |
| III                     | Microbiology                                                                                                                   | 80         | 20          | 4         |
| IV                      | Biology of Immune System                                                                                                       | 80         | 20          | 4         |
| LC-I                    | Lab Course I (Based on paper I & II)                                                                                           | 80         | 20          | 2         |
| LC-II                   | Lab Course II (Based on paper III & IV)                                                                                        | 80         | 20          | 2         |
| <b>Total</b>            |                                                                                                                                |            | <b>600</b>  | <b>20</b> |
| January 2019-June 2019  |                                                                                                                                |            |             |           |
|                         | Second Semester                                                                                                                | Marks      |             | Credit    |
| Paper                   | Title of Paper                                                                                                                 | (External) | (Internal)* |           |
| I                       | Genetics and Molecular Biology                                                                                                 | 80         | 20          | 4         |
| II                      | Bioenergetics & Metabolism                                                                                                     | 80         | 20          | 4         |
| III                     | Instrumentation and Molecular Techniques                                                                                       | 80         | 20          | 4         |
| IV                      | Biometry, Computer and Scientometry                                                                                            | 80         | 20          | 4         |
| LC-I                    | Lab Course I (Based on paper I & II)                                                                                           | 80         | 20          | 2         |
| LC-II                   | Lab Course II (Based on paper III & IV)                                                                                        | 80         | 20          | 2         |
| <b>Total</b>            |                                                                                                                                |            | <b>600</b>  | <b>20</b> |
| July 2019-December 2019 |                                                                                                                                |            |             |           |
|                         | Third Semester                                                                                                                 | Marks      |             | Credit    |
| Paper No.               | Title of Paper                                                                                                                 | (External) | (Internal)* |           |
| I                       | Genetic Engineering                                                                                                            | 80         | 20          | 4         |
| II                      | Plant Physiology and Biochemistry                                                                                              | 80         | 20          | 4         |
| III                     | Nutritional and Environmental Biochemistry                                                                                     | 80         | 20          | 4         |
| IV                      | Enzymology                                                                                                                     | 80         | 20          | 4         |
| LC-I                    | Lab Course I (Based on paper I & II)                                                                                           | 80         | 20          | 2         |
| LC-II                   | Lab Course II (Based on paper III & IV)                                                                                        | 80         | 20          | 2         |
| <b>Total</b>            |                                                                                                                                |            | <b>600</b>  | <b>20</b> |
| January 2020-June 2020  |                                                                                                                                |            |             |           |
|                         | Fourth Semester                                                                                                                | Marks      |             | Credit    |
| Paper No.               | Title of Paper                                                                                                                 | (External) | (Internal)* |           |
| I                       | Plant Biotechnology                                                                                                            | 80         | 20          | 4         |
| II                      | Seed Science Technology                                                                                                        | 80         | 20          | 4         |
| III                     | <b>Special Paper-A:</b> Clinical Biochemistry and Endocrinology<br><b>Special Paper-B:</b> Nutraceuticals and Functional Foods | 80         | 20          | 4         |
| IV                      | <b>Special Paper-A:</b> Advanced Immunology, diagnostics and prophylaxis<br><b>Special Paper-B:</b> Bioinformatics             | 80         | 20          | 4         |
| LC-I                    | Lab Course I (Based on paper I & II)                                                                                           | 80         | 20          | 2         |
| LC-II                   | Lab Course I (Based on paper III & IV)                                                                                         | 80         | 20          | 2         |

|  |                |                           |             |                   |
|--|----------------|---------------------------|-------------|-------------------|
|  |                | <b>Total</b>              | <b>600</b>  | <b>20</b>         |
|  | OR             |                           |             |                   |
|  | Project Work** | Dissertation              | 240         | 11                |
|  |                | Seminar based on Projects | 160         | 6                 |
|  |                | Viva-voce                 | 80          | 3                 |
|  |                | <b>Total</b>              | <b>600</b>  | <b>20</b>         |
|  |                | <b>Grand Total</b>        | <b>2400</b> | <b>Credit: 80</b> |

### Important Note:

Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words.

### Continuous evaluation of Performance\*

Each student will be evaluated continuously throughout the semester. There will be a class test based on each theory paper. The full marks will be 10 for each paper. There will be a poster/oral presentation based on each theory paper. The full marks will be 10 for each presentation. Each student will be required to submit a brief write-up (not more than 15-20 pages) on his/her poster/oral presentation.

### Project Work\*\*

A student of IV semester will have the choice to opt for project work in lieu of four theory papers and two lab courses provided he/she secure at least **75%** or more marks in aggregate in semester I and II. The project has to be carried out in recognized national laboratories or UGC-recognized universities. No student will be allowed to carry out project work in private laboratories/ college/ institutions, excluding the colleges recognized as research centers by the RDC of Pt. Ravishankar Shukla University, Raipur. The valuation of all the projects will be carried out by an external examiner and HoD of UTD or its nominee at the UTD Centre.

### Scheme for Lab Course (for each Semester)

### Maximum Marks 100

|                                     |            |
|-------------------------------------|------------|
| 1- Major exercise based on paper I  | 20         |
| 2- Minor exercise based on paper I  | 10         |
| 3- Major exercise based on paper II | 20         |
| 4- Minor exercise based on paper II | 10         |
| 5- Spotting/ Interpretation*        | 10         |
| 6- Viva-voce                        | 10         |
| 7- Sessional [Internal]             | 20         |
| <b>Total</b>                        | <b>100</b> |

\* A student will be required to interpret on the displayed item/material

**M. Sc. Biochemistry**  
**FIRST SEMESTER (July 2018 – December 2018)**  
**PAPER - I: CELL BIOLOGY [Credit: 4 and Maximum Marks: 80]**

(Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words).

**UNIT-I** Molecular organization of membranes - Asymmetrical organization of lipids, proteins and carbohydrates. Membrane transport: Passive transport, Osmosis, ion channels, membrane pumps and, Active transport: ATP-powered pumps-types, properties and mechanisms, electrical properties of membranes.

**UNIT-II Protein trafficking:** Transport of proteins into mitochondria, chloroplast, endoplasmic reticulum and nucleus. Transport by vesicle formation: exocytosis, endocytosis and its molecular mechanism.

**UNIT-III** Cell signaling: Signaling via G-protein linked and enzyme linked cell surface receptors, MAP kinase pathways.

Eukaryotic cell division cycle: different phases and molecular events, regulation and control of cell cycle. Oncogenes: retinoblastoma, E2F and p53 proteins.

Apoptosis: regulation by CASPases and formation of apoptosome. Pro- and anti-apoptotic factors.

**UNIT-IV** States of chromosomes during cell cycle. Mitotic chromosome. Organization of genes in chromosomes. Banding pattern of chromosomes. Lampbrush and Polytene chromosomes. DNA packaging: Chromatin, nucleosomes, heterochromatin and euchromatin.

**Lab Course:**

1. Study of chromosome behaviour during Mitosis and meiosis (Onion / Garlic root tips, Onion buds, human lymphocytes, rat or bird testis /grass hopper testis or any other materials).
2. Calculation of mitotic index in growing Onion / Garlic root tips
3. Squash preparation: Polytene chromosome (in chironomus / Drosophila or other insect salivary gland) and Barr body (in buccal epithelial cells).
4. Demonstration of secretory granules in the salivary gland cells of insect.
5. Demonstration of mitochondria by vital staining.
6. Study of permanent slides.
7. Estimation of DNA
8. Estimation of RNA
9. Sub-cellular fractionation and marker enzymes
10. Identification of biomolecules in different tissues by histochemical techniques

11. Preparation of mitotic plate by carmine squashing method and phase identification.
12. Demonstration of the nuclear matrix networks in onion cells.
13. Study of the effect of chemical agents on chromosomes plant cells.
14. Isolation of protoplast, measurement of cell density plating efficiency.
15. Preparation of Karyotype of metaphase plate.
16. Preparation of Meiotic plate and determination of phases.
17. Computation of Chiasma frequency and Terminalization of phases.
18. Micrometry and Camera Lucida drawings.

**Books Recommended:**

- |                                                 |                                                        |
|-------------------------------------------------|--------------------------------------------------------|
| H. Lodish, A. Berk, S L Zipursky, P. Matsudaira | Molecular Cell Biology                                 |
| D. Baltimore, and James Darnell.                |                                                        |
| B. Alberts, D. Bray, K. Hopkin, A. Johnson      | Essential of Cell Biology                              |
| H. Lodish, A. Berk, C. A. Kaiser & M. Krieger   | Molecular cell Biology                                 |
| B. Alberts, A. Johnson, J. Lewis and M. Raff    | Molecular Biology of the Cell                          |
| Gerald Karp                                     | Cell and Molecular Biology<br>Concepts and experiments |

## M. Sc. Biochemistry

FIRST SEMESTER (July 2018 – December 2018)

### PAPER – II: Biomolecules [Credit: 4 and Maximum Marks: 80]

(Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words).

- UNIT-I** Classification and function of Carbohydrates, Lipid:  
 Carbohydrate: Monosaccharides, homo and hetero-polysaccharides, Peptidoglycan glycoproteins and liposaccharide.  
 Lipids: Simple; cholestrol and complex; phospholipids and TAG
- UNIT-II** Classification and functions of amino acids, Synthesis of peptides, Proteins- properties, secondary, tertiary and quaternary structure of proteins, Ramchandran plot.  
 Nucleic Acid: Purine and pyrimidine, DNA-types, linking number, RNA-types.
- UNIT-III** Enzyme: apoenzymes, cofactors, coenzymes, active site, factors contributing to the catalytic efficiency of enzyme; enzyme kinetics- Michaelis-Menten equation, determination of Km, enzyme inhibition, allosteric enzymes, isoenzymes, multienzyme complexes
- UNIT-IV** Structure and biological role of:  
 Porphyrins in biology, structure of hemoglobin and chlorophyll  
 Animal hormones: protein, peptide and steroid hormones.  
 Vitamins: fat and water soluble.

**Lab Course:**

1. Specific tests for sugars, amino acids and lipids

2. Formal titration of amino acids
3. Estimation of proteins using ninhydrin and biuret method
4. Estimation of sugar by anthrone and Folin-Wu method.
5. Saponification value and iodine number of fat.
6. Estimation of ascorbic acid.
7. Achromic point determination using salivary amylase
8. Effect of ions on salivary amylase activity.
9. Enzyme assay and kinetics (ex. Amylase, Protease)

**Books Recommended:**

|                              |                                   |
|------------------------------|-----------------------------------|
| Nelson, Cox and Lehninger    | Principles of Biochemistry        |
| G. Zubay                     | Biochemistry                      |
| Stryer                       | Biochemistry                      |
| Garrett and Grosham          | Biochemistry                      |
| West, Tood, Mason & Bbruglen | Text book of biochemistry         |
| White, Handler & Smith       | Biochemistry-clinical application |
| D. Voet and J C Voet         | Biochemistry                      |

## **M. Sc. Biochemistry**

**FIRST SEMESTER (July 2018 – December 2018)**

### **PAPER – III: Microbiology [Credit: 4 and Maximum Marks: 80]**

(Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words).

- UNIT-I** General characteristics of fungi, classification of fungi, life cycle of selected fungal genus (*Aspergillus*, *Pencillium*, *Fusarium* and *Mucor*). Economic importance of fungi. Fungi and bioremediation, parasitism, mutualism and symbiosis with plants and animals. Heterothallism, sex hormone in fungi, Mycorrhiza, VAM.  
Algae: Distribution, classification, reproduction, ecology and importance.
- UNIT-II** Morphology and ultra structure of bacteria:  
Morphological types, cell wall of archaebacteria, gram negative, gram positive eubacteria.  
Cell membranes – structure, composition and properties. Structure and function of flagella, cilia, pili, gas vesicles.  
Cyanobacteria, protozoa, mycoplasma and Rickettsia.  
Gene transfer mechanisms: transformation, transduction, conjugation and transfection.  
Plasmids: F- factors, colicins and col factors, plasmids as a vector for gene cloning.
- UNIT-III** Nutritional types (autotrophs, heterotrophs, phototrophs, chemotrophs), growth curves, measurement of growth, factors affecting growth, generation time, growth kinetics.  
Batch and continuous culture, asynchronous, synchronous culture.  
Basis of microbial classification, classification and salient feature of bacteria according to Bergey's manual of determinative bacteriology, cyanobacteria, prochlorons and cyanelles.

**UNIT-IV** Viruses: Structure and classification of viruses; General Concepts: Viral genome, capsids, envelopes, viroids and prions).  
Virus reproductions: Lysogeny and Lytic phase,  
Bacteriophages and their types.  
General Introduction to Plant and animal viruses (TMV, HIV, Hepatitis virus, H1N1 virus, Small Pox virus), hemorrhagic viral fever, Route of transmission of viruses, Laboratory diagnosis and treatment, Antiviral therapy.

**Lab Course:**

1. Glassware preparation and sterilization techniques- wet heat- dry heat- filter types- laminar flow chamber types- CDC- safety levels.
2. Preparation of liquid & solid media, plating, pouring, inoculation and incubation for growth of microorganism
3. Methods of obtaining pure culture of microorganisms (a) streak plate (b) Pour plate, and (c) spread plate methods
4. Microscopic examination of the microorganisms, identification and staining methods
5. Micrometry and camera lucida drawings
6. Study of bacterial growth by turbidimetry/ spectrophotometry
7. Biomass measurement for fungi
8. Isolation and enumeration of microorganisms from soil by serial dilution agar plating method.
9. Enumeration of viruses by plaque assay technique.
10. Motility of bacteria by hanging drop technique.

**Books Recommended:**

|                                                                 |                                                                  |
|-----------------------------------------------------------------|------------------------------------------------------------------|
| Microbiology                                                    | L.M. Prescott, J.P. Harley and D.A. Klein                        |
| General Microbiology                                            | RY Stanier, J L Ingrahamana, ML Wheelis & P. R. Painter          |
| Principles of Microbiology                                      | R.M. Atlas                                                       |
| Microbiology                                                    | Peleczar, Chan & Krieg.                                          |
| General Virology                                                | Luria, Darnell, Baltimore and Campell.                           |
| Introduction to Mycology                                        | CJ Alexopoulos and CW Mims                                       |
| Principles of Virology:                                         | S. J. Flint, V. R. Racaniello, L. W. Enquist, V. R. Rancaniello, |
| Molecular Biology, Pathogenesis, and Control of Animal Viruses. | . M. Skalka                                                      |

**M. Sc. Biochemistry**

**FIRST SEMESTER (July 2018 – December 2018)**

**PAPER – IV: Biology of Immune System [Credit: 4 and Maximum Marks: 80]**

(Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words).

**UNIT-I** Innate immune mechanism and characteristics of adaptive immune response. Cells of immune system: Hematopoiesis and differentiation, mononuclear cells and granulocytes, antigen presenting cells.  
Primary and Secondary lymphoid organs and tissues.  
Ontogeny and phylogeny of lymphocytes. Lymphocyte traffic.



**UNIT-II** Antigen receptor molecules: B-cell receptor complex, Immunoglobulin- structure, types and function. T-cell receptor complex. Major Histocompatibility Complex- types, structural organization, function and distribution. Transplantation and Rejection. Complement system.

**UNIT-III** Antigens: nature of antigens, factor affecting immunogenicity, Haptens and super antigens. Antigenic determinants. Recognition of antigens by T and B cell. Antigen processing. Role of MHC molecules in antigen presentation and co-stimulatory signals. Antigen and antibody interaction.

**UNIT-IV** Cell mediated immune response. Cytokines and interleukins- structure and function. Immunity to infections. Hypersensitive reactions and their types. Immunodeficiency disorders. Autoimmunity

**Lab Course:**

1. Identification of cells of immune system
2. Separation of mononuclear cells by Ficoll-Hypaque
3. Identification of Lymphocytes and their subsets
4. Lymphoid organs and their microscopic organization
5. Isolation and purification of Antigens
6. Purification of IgG from serum
7. Estimation of Levels of gamma globulins and A/G ratio in blood
8. Antigen antibody interaction

**Books Recommended:**

|                            |                                            |
|----------------------------|--------------------------------------------|
| Kuby's Immunology          | R.A. Goldsby, T. J Kindt and B. A. Osborne |
| Immunology- A short Course | E. Benjamini, R. Coico and G. Sunshine     |
| Immunology                 | Roitt, Brostoff and Male                   |
| Fundamentals of Immunology | William Paul                               |
| Immunology                 | Tizard                                     |
| Immunology                 | Abbas et al                                |

## **M. Sc. Biochemistry**

**SECOND SEMESTER (January 2019 – June 2019)**

### **PAPER – I: Genetics and Molecular Biology [Credit: 4 and Maximum Marks: 80]**

(Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words).

**UNIT- I** Gene mapping methods: Linkage maps, tetrad analysis, mapping with molecular markers, mapping by using somatic cell hybrids, development of mapping population in plants, complementation analysis. Mutation: Types, mutagens and detection.

Mutant types – lethal, conditional, biochemical, loss of function, gain-of-function, germinal verses somatic mutants, insertional mutagenesis.

**UNIT-II** DNA replication in eukaryotes and prokaryotes : enzymes involved, replication origin and replication fork, fidelity of replication, extrachromosomal replicons. DNA damage and repair mechanisms: Repair of Base-excision, Nucleotide excisions, Mismatch and Double Strand.  $p_{53}$  and  $p_{21}$ .

**UNIT-III** RNA synthesis and processing: enzymes involved, formation of initiation complex, transcription activator and repressor, elongation, and termination, RNA processing, capping, RNA editing, splicing, and polyadenylation, RNA transport.

**UNIT-IV** Protein synthesis and processing: Ribosome, formation of initiation complex, initiation factors, elongation and elongation factors and their regulation, termination.

Aminoacylation of tRNA, tRNA-identity, aminoacyl tRNA synthetase, and translational proof-reading, translational inhibitors.

Post Translational modification of proteins.

**Lab Course:**

1. Isolation, purification and estimation of RNA
2. Isolation, purification and estimation of DNA
3. Determination of  $T_m$  of nucleic acid
4. Fraction of poly (A) RNA
5. Restriction Mapping
6. Restriction Digestion
7. Ligation
8. DNA molecular size determination

**Books Recommended:**

|                                                          |                                                                                              |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Molecular Cell Biology                                   | H. Lodish, A. Berk, SL Zipursky, P. Matsudaira, D. Baltimore, and James Darnell.             |
| Essential Cell Biology                                   | B. Alberts, D. Bray, K. Hopkin and A. Johnson                                                |
| Molecular Biology of the Cell                            | B. Alberts, A. Johnson, J. Lewis and M. Raff                                                 |
| Cell and Molecular Biology<br>: Concepts and experiments | Gerald Karp                                                                                  |
| Molecular Biology of the Gene                            | JD Watson et al.                                                                             |
| Molecular Biology of the Cell<br>The Problems            | John Wilson, Tim Hunt                                                                        |
| Molecular Biology of the Cell                            | Bruce Albert's, Alexander Johnson, Julian Lewis,<br>Martin Raff, Keith Roberts, Peter Walter |
| Genes VIII                                               | Benjamin Lewin                                                                               |

## M. Sc. Biochemistry

SECOND SEMESTER (January 2019 – June 2019)

### PAPER – II: Bioenergetics & Metabolism [Credit: 4 and Maximum Marks: 80]

(Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit,

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of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words).

**UNIT-I** First and second laws of thermodynamics. Gibbs free energy  $G$ , free energy change  $\Delta G$ , endergonic & exergonic reactions. Standard state free energy changes- $\Delta G$ ,  $\Delta G^0$  and  $\Delta G'^0$ , Relationship between equilibrium constant and  $\Delta G'^0$ , Feasibility of reactions. ATP- Structure, properties and energy currency of the cell, Importance of Coupled reactions, other high energy compounds.

**UNIT-II** Carbohydrate metabolism: Glycolysis, Kreb's cycle, glycogenolysis, glycogenesis, pentose phosphate pathway, gluconeogenesis, and glyoxylate pathway. Regulation of carbohydrate metabolism.

**UNIT-III** Electron transport and oxidation phosphorylation: electron carriers, complexes I to IV, substrate level phosphorylation, mechanism of oxidative phosphorylation. Shuttle system for entry of electron.  
Biosynthesis and degradation of Lipids. Regulation of lipid metabolism

**UNIT-IV** Nitrogen Assimilation: Overview of Nitrogen in biosphere and uptake by organism. Biosynthesis and degradation of amino acids. Regulation of amino acid metabolism  
Biosynthesis and degradation of purine and pyrimidine nucleotides.

**Lab Course:**

1. Protein estimation by Lowry, Bradford and Spectrophotometric method
2. Estimation blood cholesterol
3. Estimation of sugar by Nelson- Somagy and Benedict's reagent
4. Isolation and estimation of lipid from seeds and egg.
5. Estimation of inorganic and total phosphorus by Fiske-Subba Rao method
6. Assay of phosphatases in blood and seeds
7. Urease estimation in plant tissues

**Books Recommended:**

|                                        |                              |
|----------------------------------------|------------------------------|
| Principles of Biochemistry             | Nelson, Cox and Lehninger    |
| Biochemistry                           | G. Zubay                     |
| Biochemistry                           | Stryer                       |
| Biochemistry                           | Garrett and Grosham          |
| Text book of biochemistry              | West, Tood, Mason & Bbruglen |
| Biochemistry                           | White,Handler & Smith        |
| Biochemistry with clinical application | D. Voet and J C Voet         |
| Enzymes                                | Dixon and Webb               |
| Fundamentals of Enzymology             | Price and Steven             |
| Practical biochemistry                 | Plummer                      |
| Enzyme biotechnology                   | G. Tripathi                  |
| Enzyme Reaction Mechanism              | Walsh                        |
| Enzyme catalysis and regulation        | Hammes                       |

# M. Sc. Biochemistry

SECOND SEMESTER (January 2019 – June 2019)

## PAPER- III: Instrumentation and Molecular Techniques

[Credit: 4 and Maximum Marks: 80]

(Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words).

- UNIT-I** Centrifugation: Principle, techniques. Preparative, analytical and ultracentrifuges, sedimentation coefficient and factors affecting sedimentation coefficient. Application of centrifugation.  
Photometry: Basic principles of colorimetry, UV- visible spectrophotometry & IR-spectrophotometry. Spectroflurometry  
Atomic absorption spectroscopy: Principle, Instrumentation and applications
- UNIT-II** Microscopic techniques: light microscopy, phase-contrast microscopy, scanning and transmission electron microscopy, different fixation and staining techniques for EM, freeze-etch and freeze-fracture methods for EM, image processing methods in microscopy.
- UNIT-III** Chromatography: Paper and Thin Layer Chromatography. Gel filtration, Ion exchange chromatography and Affinity chromatography. Gas-liquid chromatography and HPLC. Histochemical and immunotechniques: Detection of molecules using ELISA, RIA, western blot, immunoprecipitation, flow cytometry and immunofluorescence microscopy, detection of molecules in living cells, *In situ* localization; FISH and GISH.
- UNIT-IV** Electrophoresis: Agarose, PAGE, 2D-E.  
Radioactivity: GM counter, liquid Scintillation counter, solid Scintillation counter, gamma counters.  
*Lyophilization*: Principle, instrumentation and applications.  
Microtomy: types, principle and applications

### Lab Course:

- Verification of Beers Law
- Determination of absorption maxima
- Quantitative determination, Enzyme kinetics
- Amino acid and carbohydrate separation by paper and TLC
- Ion exchange and gel filtration chromatography
- SDS Polyacralamide Gel Electrophoresis
- DNA electrophoresis
- Isoenzymes
- Separation of sub-cellular organelles by differential centrifugation.
- Isolation of DNA and Agarose gel Electrophoresis
- Amplification of RAPD and AFLP markers.

- Isolation of RNA and Electrophoresis of RNA on denaturing gels.
- cDNA synthesis and cloning
- Isolation of Protein and SDS-PAGE
- In vitro DNA ligation, transformation of E. coli
- Characterization of transformants: DNA gel electrophoresis, Restriction map analysis

#### Books Recommended:

- |                                                               |                                                                              |
|---------------------------------------------------------------|------------------------------------------------------------------------------|
| • K Wilson and John Walker                                    | Practical Biochemistry: Principles & Techniques                              |
| • RF Boyer                                                    | Biochemistry Laboratory: Modern Theory & Techniques                          |
| • S Carson, H Miller and D Scott                              | Molecular Biology Techniques: A Classroom Laboratory Manual                  |
| • TC Ford and J. M. Graham                                    | An Introduction to Centrifugation                                            |
| • R Baserga and D Malamud                                     | Autoradiography: techniques and application                                  |
| • T Chard                                                     | An Introduction to Radioimmunoassay and Related Techniques , Volume 6        |
| • MD Bruch                                                    | NMR Spectroscopy Techniques                                                  |
| • BA Wallace and R William                                    | Modern Techniques for Circular Dichroism and Synchrotron Radiation, Volume 1 |
| • J Sambrook, EF Rritsch and I Maniatis                       | Molecular cloning: A Laboratory Manual                                       |
| • PD Dabre                                                    | Introduction to Practical Molecular Biology                                  |
| • JD Watson, NH Hopkins, JW Roberts, JA Steitz and AM Weiner  | Molecular Biology of Gene (4 <sup>th</sup> Edition)                          |
| • J Darnell, H Lodish and D Baltimore                         | Molecular Cell Biology (2 <sup>nd</sup> Edition)                             |
| • B Alberts, D Bray, J Lewis, M Raff, K Roberts and JD Watson | Molecular Biology of the Cell (2 <sup>nd</sup> Edition)                      |
| • Benjamin Lewin                                              | Gene VII                                                                     |
| • JM Walker and R Rapley                                      | Molecular Biology and Biotechnology                                          |
| • SB Primrose                                                 | Molecular Biotechnology                                                      |

## M. Sc. Biochemistry

SECOND SEMESTER (January 2019 – June 2019)

### PAPER- IV: BIOMETRY, COMPUTER AND SCIENTOMETRY

[Credit: 4 and Maximum Marks: 80]

(Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words).

**Unit-I** Introduction to biostatistics. Types of biological data: data on different scales. Frequency distributions. Cumulative frequency distributions. Random sampling. Parameters and statistics. Measures of central tendency and dispersion: Mean, Median, Mode, Range, Variance and Standard deviation. Coefficient of variation. The effects of coding data. Data transformations: Log-transformation, Square-root transformation and Arcsine transformation. Distribution: normal & binomial. Probability: Basic laws of probability, addition law, multiplication law. Probability and frequency.

**Unit-II** Statistical errors in hypothesis testing. Testing goodness of fit: Chi-square goodness of fit. Heterogeneity Chi-square. The 2 x 2 contingency table. One sample hypothesis. Two-sample hypothesis. Testing for difference between two means (t-test). Testing for difference between two variances (F-test). The paired sample t-test. Multiple-sample hypothesis (ANOVA): Single factor and two factors ANOVA. Multiple comparisons: Duncan's multiple-range tests. Simple linear regression. Regression vs. Correlation. Regression equation. Interpretations of regression functions. Simple linear correlation. The correlation coefficient.

**Unit-III** Introduction to MS-Office software: Word processing; creating new document, editing documents, adding graphics to documents, Word tables. Management of Workbook & Worksheets; Applications, Features, Using formulas and functions, Features for Statistical data analysis, Generating charts/ graph. Presentation software; Working in PowerPoint, Creating new presentation, working with slides.

**Unit-IV** Introduction to Internet and Applications. Basics of internet, e-mailing, Search engine – Google and Yahoo; Pub med, Scopus, Web of Science, Google Scholar, Indian Citation Index, Science Citation Index (SCI), h-index, i-10-index. Journal Impact Factor (JIF). Introduction to Plagiarism and Cyber laws.

**Lab Course:**

1. Exercises for data distribution
2. Exercises for computation of measures of central tendency
3. Exercises for computation of measures of variability
4. Computation of correlation coefficient,  $r$ , and regression constants
5. Data analysis by ANOVA and multiple-range tests
6. Hypothesis testing by t-test, F-test, and Chi-square test
7. Graphical presentation of data using a suitable package
8. Statistical analysis of a data using a suitable package
9. Preparation of document using a suitable package
10. Preparation of slides using a suitable package

**Books Recommended:**

|                                      |                                                                              |
|--------------------------------------|------------------------------------------------------------------------------|
| Campbell RC                          | Statistics for biologists                                                    |
| Zar JH                               | Biostatistical Analysis                                                      |
| Wardlaw AC                           | Practical Statistics for Experimental Biologists                             |
| Snedecor GW & Cochran WG             | Statistical Methods                                                          |
| Sokal RR & Rohlf FJ                  | Introduction to Biostatistics                                                |
| Sumner M                             | Computers: Concepts & Uses                                                   |
| White R                              | How Computers Work                                                           |
| Cassel P et al.                      | Inside Microsoft Office Professional                                         |
| Coleman P and Dyson P                | Mastering Internets                                                          |
| Gralla P                             | How the Internet Works                                                       |
| Shelly GB, Vermaat ME,<br>Cashman TJ | Microsoft 2007: Introductory Concepts & Techniques                           |
| Habraken J                           | Microsoft Office 2003 All in One                                             |
|                                      | Microsoft Office 2010 In Depth                                               |
| Gilmore B                            | Plagiarism: Why it happens, How to prevent it?                               |
| Buranen L & Roy AM                   | Perspectives on Plagiarism & Intellectual Property<br>in a Post-Modern World |
| Kumar Anupa P                        | Cyber Law                                                                    |
| Sood V                               | Cyber Law Simplified                                                         |

**M. Sc. Biochemistry**  
**THIRD SEMESTER (July 2019 – December 2019)**  
**PAPER – I: Genetic Engineering [Credit: 4 and Maximum Marks: 80]**

(Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words).

- UNIT- I** Molecular tools and their applications: restriction enzymes, modification enzymes.  
Molecular techniques: gel electrophoresis, polymerase chain reaction, DNA sequencing, DNA microarray.
- UNIT-II** Gene cloning vectors: plasmids, lambda phage as vector, M13 phage as vector, cosmids, artificial chromosomes (BAC, PAC, YAC).  
Library:  
1. Genomic library: genomic DNA library construction and screening methods.  
2. cDNA library: cDNA library construction and screening.  
Study of gene regulation: reporter assays.  
Expression strategies for heterologous genes: vector engineering and codon optimization, host engineering, in vitro transcription and translation.
- UNIT-III** Processing of recombinant proteins: recombinant proteins purification, refolding, characterization and stabilization  
Site directed mutagenesis, protein engineering, Gene knockout technique
- UNIT-IV** 1<sup>st</sup> generation- RFLP, RAPD, 2<sup>nd</sup> generation- AFLP, SSR, STS (Sequence Tagged Strands), microsatellites, SCAR (Sequence characterized amplified regions), 3<sup>rd</sup> generation- SNP, SSCP (Single strand conformational polymorphism), 4<sup>th</sup> generation- DArT.  
Hybridization techniques: western blot, northern blot, southern blot.

**Lab Course:**

1. Bacterial culture and antibiotic selection media. Preparation of competent cells
2. Isolation of plasmid DNA.
3. Isolation of Lambda phage DNA.
4. Quantitation of nucleic acids.
5. Agarose gel electrophoresis and restriction mapping of DNA.
6. Construction of restriction map of plasmid DNA.
7. Cloning in plasmid/phagemid vectors.
8. Isolation of RNA.
9. Synthesis of cDNA.
10. RAPD analysis by PCR.

**Books Recommended:**

|                                                                                                                   |                                              |
|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Genes VIII                                                                                                        | Benjamin Lewin                               |
| An Introduction to Genetic Engineering                                                                            | DST Nicholl                                  |
| Principles of Gene Manipulation and Genomics                                                                      | SB Primrose and Richard                      |
| Gene Cloning and Manipulation                                                                                     | CJ Howe                                      |
| Genetic Engineering (Genetics and Evolution)                                                                      | R Hodge                                      |
| Introduction to Biotechnology & Genetic Engineering                                                               | AJ Nair                                      |
| Genetic Engineering                                                                                               | A Kumar & N Garg                             |
| Biotechnology & Genetic Engineering                                                                               | L Yount                                      |
| DNA Microarrays & Gene Expression: from Experiments to Data Analysis and Modeling                                 | P Baldi & G Wesley                           |
| DNA Sequencing (Intro. to Biotechniques)                                                                          | L Alphey                                     |
| Plant transformation Technologies                                                                                 | CN Stewart, A Touraev, V Citovsky & T Tzfira |
| Application of Plant Biotechnology: In vitro Propagation, Pant Transformation and Secondary Metabolite Production | A Kumar and SK Sopory                        |
| Genetic Transformation of Plants                                                                                  | JF Jackson & HF Linskens                     |
| Transgenic Plants: Methods & Protocols                                                                            | L Pena                                       |

## **M. Sc. Biochemistry**

### **THIRD SEMESTER (July 2019 – December 2019)**

#### **PAPER- II: Plant Physiology and Biochemistry [Credit: 4 and Maximum Marks: 80]**

(Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words).

- UNIT- I** Sensory photobiology - Structure, function and mechanisms of action of phytochromes, cryptochromes and phototropins; stomatal movement; photoperiodism and biological clocks.  
Organization of shoot and root apical meristem; shoot and root development
- UNIT-II** Photosynthesis: Light absorption and energy conversion, photosystems I and II, ATP synthesis, Assimilation of carbon in C<sub>3</sub>, C<sub>4</sub> and CAM pathways, Photorespiration
- UNIT-III** Phytohormones: Structure, biosynthesis, molecular mechanisms of Auxin, Gibberellins, Cytokinin, Abscisic acid and Ethylene, Brassinosteroids.
- UNIT-IV** Senescence and Programmed cell death: Senescence; Metabolism and regulation of pigment and nucleic acid, PGR regulation, SAG. PCD; Formation of TE and mobilization of cereal endosperm, Formation of aerenchyma. Signal transduction and PCD

#### **Lab Course:**

1. Spectrophotometric determination of chlorophyll-a, chlorophyll-b and total chlorophyll in young, mature and senescent leaves.
2. Kinetin estimation by cucumber cotyledons expansion bioassay.
3. Auxin bioassay using wheat coleoptiles.
4. GA bioassay by inducing *de-novo* synthesis of Amylase in de-embryonated seeds of wheat.
5. Estimation of mono, di and total phenols in the young and aged leaves.



6. Estimation of Guaiacol peroxidase activity in fresh and aged seeds.
7. Determination of Superoxide dismutase levels in the healthy and deteriorated seeds.
8. Estimation of metal toxicity induced changes in the AOS levels in leaf tissues.
9. Determination of Nitrate reductase activity in leaf tissues.
10. Separation of isozymes of SOD and GPX.

**Books Recommended:**

|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
| Fosket DF                          | Plant Growth & Development                      |
| Foyer CH                           | Photosynthesis                                  |
| Bacon KE                           | Photosynthesis: Photobiochem. & Photobiophysics |
| Leopold AC & Kriedemann PE         | Plant Growth & Development                      |
| Moore TC                           | Biochemistry & Physiology of Hormones           |
| L Taiz & E Zeiger                  | Plant Physiology                                |
| BB Buchanan, W Gruissem & RL Jones | Biochemistry and Molecular Biology of Plants    |
| MB Wilkins                         | Advanced Plant Physiology                       |
| JA Hopkins                         | Introduction to Plant Physiology                |
| FB Salisbury & CW Ross             | Plant Physiology                                |
| Hans-Walter Heldt                  | Plant Biochemistry & Molecular Biology          |

**M. Sc. Biochemistry**  
**THIRD SEMESTER (July 2019 – December 2019)**

**PAPER- III: Nutritional and Environmental Biochemistry**  
**[Credit: 4 and Maximum Marks: 80]**

(Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words).

- UNIT-I** Composition of balanced vegetarian and non-vegetarian diets; recommended dietary allowance (RDA) for different categories of the human beings.  
Food preservation standards, food adulterations and precautions, government regulations on preservation and quality of food.  
Food processing and loss of nutrients during processing and cooking.  
Basal metabolism and methods of measuring basal metabolic rate (BMR); energy requirements during growth, pregnancy, lactation and various physical activities.
- UNIT- II** Nutritional aspects of the carbohydrates, lipids and protein: nutritive value, requirements, and functions.  
Nutritional aspects of the vitamins and minerals: requirement and functions  
Malnutrition, its implications, relationship with dietary habits and prevention.  
Disorders related to the nutrition: Protein energy malnutrition, Starvation, Obesity.
- UNIT- III**  
Environmental Pollution: Types, Outdoor and indoor Air pollution, sources, structure and control strategies. Water and Soil Pollution.

Eco-toxicology and its environmental significance.  
Xenobiotic metabolism, Phase I reaction – oxidation – reduction, hydrolysis and hydration. Phase II reaction – conjugation and methylation.

#### UNIT- IV

Pesticide toxicity – insecticides, fungicides, herbicides and biopesticides.  
Toxicology of food additives.  
Metal toxicity – arsenic, mercury, lead and cadmium.  
Toxicity testing – Test control, genetic toxicity testing.  
Occupational toxicology: Occupational hazards and their assessment.

#### Lab Course:

1. Separation and purification of sub-cellular organelles and assay of marker enzymes.
2. Protein fractionation - salt, solvent and isoelectric precipitation.
3. Identification and assay of certain toxicants.
4. Effect of various toxicants on serum enzymes and proteins
5. Effect of various toxicants on liver and kidney metabolism
6. Estimation of carbohydrate, protein and fat in food materials.
7. Titrimetric method of ascorbic acid estimation in fruit.
8. Separation of casein protein from milk

#### Books Recommended:

|                                |                                                      |
|--------------------------------|------------------------------------------------------|
| LG Corkerhem and BSS Shane     | Basic Environmental Toxicology                       |
| T Shibamoto & L F Bzeidan      | Introduction to Food Technology                      |
| M. Stipanuk                    | Biochemical, Phys. & Mol. Aspects of Human Nutrition |
| Tom Brody                      | Nutritional Biochemistry                             |
| DA Bender                      | Nutritional Biochemistry of the Vitamins             |
| R.L. Pike and M.L. Brown       | Nutrition: An integrated approach -                  |
| G.P. Talwar                    | Text book of Biochemistry and Human Biology          |
| DWS Wong                       | Mechanism and theory in food chemistry               |
| M.S. Banji N P. Rao & V. Reddy | Text book of Human Nutrition                         |
| Linten                         | Nutritional Biochemistry and Metabolism              |

## M. Sc. Biochemistry

THIRD SEMESTER (July 2019 – December 2019)

### PAPER - IV: Enzymology [Credit: 4 and Maximum Marks: 80]

(Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words).

**UNIT-I** General properties and effects of pH, substrate and temperature on enzyme catalyzed reactions.

Kinetics of catalyzed reaction: Single substrate reactions, bisubstrate reactions, concept of Michaelis - Menten, Briggs Haldane relationship, Determination and significance of kinetic constants, Limitations of Michaelis-Menten Kinetics,

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Concept of convergent and divergent evolution of enzyme.

**UNIT-II** Enzyme Turnover and methods employed to measure turnover of enzymes, significance of enzyme turnover.

Protein – ligand binding, analysis of binding isotherms, cooperativity phenomenon, Hill and Scatchard plots.

Multienzyme system : occurrence, their properties , mechanism of action & regulation; Pyruvate dehydrogenase complex, fatty acid synthetase complexes.

Mechanism of action of lysozyme, chymotrypsin, carboxypeptidase and DNA polymerase

**UNIT-III** General mechanisms of enzyme regulation

Allosteric enzymes, sigmoidal kinetics and their physiological significance, symmetrical and sequential modes for action of allosteric enzymes and their significance.

Water soluble enzymes and their coenzymes. Metallo enzymes.

Immobilized enzymes and their industrial applications.

Enzyme modeling; WHATIF, Verify3d, PROSA and DOPE score

**UNIT-IV** Enzymes of Industrial Importance; their source, characteristic properties, functions and uses.

Enzymes used in leather, paper, textile industries.

Enzymes in baking, brewing, Alcohol products; enzymes in detergents, starch and animal feeds.

Amylases, cellulases, catalase, pectinase, lipase, protease, xylanase, laccase, beta glucanase

**Lab Course:**

1. Estimation of enzymes
2. Separation, purification of sub-cellular organelles & assay of marker enzymes.
3. Methods of purification of an enzyme - ion-exchange, gel filtration
4. Test of homogeneity by SDS-PAGE
5. Kinetics of an enzymatic reaction
6. Effect of various toxicants on serum enzymes and proteins
7. Enzyme modeling: Validation Criteria by WHATIF, Verify3d, PROSA and DOPE score
8. Verification of Ramachandran Plot: Estimation of interaction energy per residue by PROSA and Verify3D.
9. Enzyme packing quality: Assessed by WHATIF.

**Books Recommended:**

|                               |                                                                            |
|-------------------------------|----------------------------------------------------------------------------|
| Brandon and Tooze             | Introduction to Protein Structure                                          |
| Campbell                      | Discovering Genomics, Proteomics and Bioinformatics,                       |
| Dan Gusfield                  | Algorithms on Strings Trees and Sequences                                  |
| Lesk, A.M                     | Introduction to Protein Architecture                                       |
| Mcpherson, A.                 | Introduction of Molecular Crystallography                                  |
| Pennington                    | Proteomics from Protein Sequence to Function                               |
| Durbin, Eddy, Anders & Graeme | Biological Seq. Analysis: Probabilistic Models of Proteins & Nucleic Acids |
| S.A. Bbernhard                | The structure and function of enzymes                                      |

|                                             |                                                          |
|---------------------------------------------|----------------------------------------------------------|
| J. Palmer                                   | Enzymes: biochemistry, Biotechnology, Clinical chemistry |
| M Dixon, EC Webb, CJR Thorne<br>& KF Tipton | Enzymes                                                  |
| Alan Fersht                                 | Enzyme structure and Mechanism                           |
| Christopher Walsh                           | Enzymatic reaction mechanism                             |
| Eisenthal and Danson                        | Enzyme Assay: A Practical Approach                       |
| M. Stipanuk                                 | Biochemical, Phys. & Mol. Aspects of Human Nutrition     |
| G.P. Talwar                                 | Text book of Biochemistry and Human Biology              |

## **M. Sc. Biochemistry**

**FOURTH SEMESTER (January 2020 – June 2020)**

### **PAPER – I: Plant Biotechnology [Credit: 4 and Maximum Marks: 80]**

(Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words).

**UNIT-I** Introduction to cell and tissue culture: Tissue culture media (composition and preparation), explant preparation, Callus and suspension culture, cytodifferentiation and organogenic differentiation, somatic embryogenesis, micropropagation.  
Shoot tip culture: Rapid clonal propagation and production of virus free plant.

**UNIT-II** Embryo culture and embryo rescue.  
Anther, pollen and ovary culture for production of haploid plants & homozygous lines.  
Protoplast isolation, culture and fusion; selection of hybrid cells and regeneration of hybrid plants; symmetric and asymmetric hybrids, cybrids.  
Germplasm conservation: Cryopreservation & slow growth cultures.  
Chloroplast Transformation: Advantages, vectors, success; tobacco & potato.

**UNIT-III** Plant transformation technology: Plant transformation technology: basis of tumor formation, hairy root, features of Ti and Ri plasmids, mechanism of DNA transfer, role of virulence genes, use Ti and Ri as vectors, binary vectors, use of 35S and other promoters, use of reporter genes, particle bombardment, electroporation, microinjection.

**UNIT-IV** Applications of plant transformation for productivity and performance: herbicide resistance, insect resistance, long shelf-life of fruits. Bt genes, Non-Bt like protease inhibitors & amylase inhibitors, virus resistance, nucleocapsid gene, disease resistance, PR (Pathogenesis Related) proteins, nematode resistance, abiotic stress, male sterile lines

**Lab Course:**

1. Preparation of culture media.
2. To perform meristem/ bud culture, shoot multiplication & rooting phenomenon.
3. To study organogenesis.
4. To perform somatic embryogenesis.

5. To study the process of plantlet acclimatization.
6. To perform embryo culture.
7. To study the process of anther culture development.
8. Study of molecular markers.
9. Extraction of DNA from plant cultures.
10. Estimation & separation of DNA: Agarose gel electrophoresis & spectrophotometer.

**Books Recommended:**

|                               |                                                                    |
|-------------------------------|--------------------------------------------------------------------|
| Razdan MK                     | Introduction to Plant Tissue Culture                               |
| Vasil IK                      | Plant Cell and Tissue Culture                                      |
| Bhojwani SS and Razdan MK     | Plant Tissue Culture                                               |
| Fu TJ, Singh G and Curtis WR  | Plant Cell & Tissue Culture for the production of Food Ingredients |
| Hammond, McGarvP & Yusibov    | Plant Biotechnology                                                |
| Singh BD                      | Biotechnology: Expanding Horizons                                  |
| RH Smith Plant Tissue Culture | Techniques and Experiments                                         |
| L Kyte and J Kleyn            | Plants from Test Tubes: An Introduction to Micropropagation        |
| M Smith                       | Plant Propagator's Bible                                           |
| MR Ahuja                      | Micropropagation of Woody Plants                                   |
| YPS Bajaj                     | Trees III                                                          |
| YPS Bajaj                     | Trees IV                                                           |

## M. Sc. Biochemistry

FOURTH SEMESTER (January 2020 – June 2020)

### PAPER- II: Seed Science Technology [Credit: 4 and Maximum Marks: 80]

(Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words).

- UNIT- I** Seed development: Phases of development, Maturation; accumulation of desiccation related compounds, ABA regulation. Seed Dormancy: Physiological and molecular basis, Testa, Endosperm, Aleurone layers & Hormonal cross talk in dormancy. Alleviation of dormancy; Protein oxidation. Dormancy breaking chemicals and mechanism.
- UNIT-II** Seed Germination: Pre-germination, Germination and post germination Metabolism. Reactivation of the metabolic pathway. Cellular repair. Hormonal regulation and metabolism; GA & ABA, ROS metabolism.
- UNIT-III** Seed Ageing: Seed storage physiology: Orthodox & Recalcitrant; ROS metabolism, Mechanism of desiccation tolerance, dehydrins/LEA/peroxiredoxin, HSPs, Sugars. Longevity markers;  $\beta$ - mercaptopyruvate sulfurtransferase (MST), L-isoaspartyl O-methyltransferase (PIMT).
- UNIT-IV** Seed Technology: Priming technology; biochemical and molecular aspects. Cryobanks, Cryopreservation of seed and embryo; Cryoprotective molecules, Vitrification, Encapsulation and Drying. Synthetic seeds.

**Lab Course:**

1. Osmotic and chemical priming effect on seed germination.
2. To observe inhibition of root growth in dose dependent salt stress and its comparison with the control.
3. Testing seed viability and vigour by:
  - (a) Germination
  - (b) Triphenyl tetrazolium test
  - (c) Specific conductance of leachates and
  - (d) Germination Index
4. Lipid peroxidation in ageing seeds.
5. Staining of superoxide and hydrogen peroxide in roots of salt stressed and control seeds.
6. Quantitative and qualitative estimation of antioxidant enzymes in seeds:
  - (a) SOD
  - (b) Guaiacol peroxidase and
7. Peroxidase assay by tissue printing method.

**Books Recommended:**

|                           |                                                          |
|---------------------------|----------------------------------------------------------|
| J.D. Bewley & M. Black    | Physiology & Biochemistry of Seeds                       |
| J.D. Bewley & M. Black    | Seeds: Physiology of Development & Germination           |
| Black et al.              | Desiccation and Survival of Plants: Dying without Drying |
| P.K. Agrawal & M. Dadlani | Techniques in Seed Science & Technology                  |
| FAO Report 113            | Ex-situ storage of seeds, pollen & in-vitro cultures     |
| Copeland & McDonald       | Seed Science & Technology                                |
| R.L. Agrawal              | Seed Technology                                          |
| J. Kigel & G. Galili      | Seed Development & Germination                           |
| W. Ayad et al.            | Molecular Genetic Techniques for Plant Genetic resources |
| E.E. Benson               | Plant Conservation Biotechnology                         |
| D. E. Fosket              | Plant Growth & Development                               |
| R.B. Taylorson            | Recent Adv. in the Development & Germination of Seeds    |
| McDonald & Copeland       | Seed Technology Laboratory Manual                        |
| Khullar & Thapliyal, R.C. | Forest Seed                                              |
| L. Schmidt                | Guide to Handling of Tropical & Sub-tropical Forest Seed |

**M. Sc. Biochemistry****FOURTH SEMESTER (January 2020 – June 2020)****Special Paper PAPER - III (A): Clinical Biochemistry and Endocrinology****[Credit: 4 and Maximum Marks: 80]**

(Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words).

- UNIT-I** Plasma proteins – Properties, functions and their variations in diseases, Plasma lipids and lipoproteins, Interrelationship of lipids, lipoproteins and apolipoproteins. Erythropoiesis, abnormalities in blood formation. Anemias. Hemoglobinopathies. Cerebrospinal fluid – composition in health and diseases. Clinical enzymology - Plasma enzymes in diagnosis and prognosis, Isoenzymes in health and diseases (Liver, cardiac and skeletal muscle enzymes)

**UNIT-II** Liver function tests, their significance, Liver diseases – Jaundice, hepatitis, gall stones, cirrhosis and fatty liver. Free radical mechanism and role of reactive oxygen species in diseases. Role of liver in metabolic regulation and drug metabolism. Clinical chemistry of new born.

Kidney – Renal hormones –Renin, erythropoietin and angiotensin. Investigations of renal functions, biochemical investigation of renal disorders. Nephritis, nephrotic syndrome and urolithiasis. Compensatory mechanism for acidosis and alkalosis.

Gastrointestinal hormones - Gastrin, secretin and cholecystokinin. Disorders of gastric function, methods of evaluation. Pancreatic exocrine secretions, pancreatic diseases, steatorrhea. Malabsorption syndrome – tests for their evaluation and significance.

**UNIT-III** Pancreatic hormones – Biosynthesis of insulin, regulation of secretion of insulin and glucagon, their role in carbohydrate ,lipid and protein metabolism. Endocrine disorders of pancreas – Diabetes mellitus, melliturias, hypoglycemia. Glucose tolerance test.

Thyroidal hormones – Chemistry, function and metabolism. Hypo and hyper thyroidism, tests for thyroid function. Parathyroid hormones – Parathormone and calcitonin, their role in calcium and phosphate metabolism, abnormalities of parathyroid functions and methods of evaluation.

Adrenals - Chemistry and biosynthesis of adrenal medullary and adrenal cortical hormones . Disorders of adrenal cortex and adrenal medulla, tests for the evaluation of adrenal functions. Biochemical effects of tumours.

**UNIT-IV** Synthesis, secretion, transport and biological actions of hypothalamic, adeno-hypophysial and neurohypophysial hormones. Hypothalamic disorders. Pituitary - Clinical syndromes and their evaluation. Penial hormones – Melatonin and serotonin. Chemistry, biosynthesis and role of androgens, estrogens and progesterone. Hormonal regulation of menstrual cycle, Hormonal contraception. Placental hormones. Biochemistry of reproductive disorders, pregnancy toxemia, pregnancy tests.

**Lab Course:**

1. Assay of Alkaline and Acid Phosphates
2. Estimation of blood glucose by GOD and POD method
3. Various types of glucose tolerance tests.
4. Estimation of SGOT, SGPT, LDH and CPK, Serum Amylase enzymes
5. Estimation of HDL- cholesterol, LDL- cholesterol.
6. Estimation of uric acid and creatinine in plasma.
7. Estimation of urine and blood billurubin.
8. Effect of various toxicants on serum enzymes and proteins
9. Effect of various toxicants on liver and kidney metabolism
10. Purification of protein hormones
11. Assay of steroid dehydrogenase
12. Isolation and characterization of steroid
13. Sperm count
14. Demonstration of estrus cycle study by vaginal smear technique
15. Histological / Histochemical / Cytological study of Endocrine gland

**Books Recommended:**

Experimental Endocrinology: Zarrow, M.X; Yochin, J.M and Machrth, J.I

Essential techniques in reproductive physiology and Endocrinology: Chinoy, N.J, Rao, M.V, Desarai, K.J and High land, H.N  
Biochemistry: L. Stryer  
Textbook of Biochemistry with Clinical Correlations: T.M. Devlin  
Lippincott's Illustrated Reviews in Biochemistry: P.C.Champe, R.A.Harvey and D.R.Ferrier  
Harper's Biochemistry: R.K.Murray, D.K.Granner, P.A. Mayes and V.W.Rodwell.  
Clinical Laboratory Science Review: Robert R. Harr  
Fundamentals of Clinical Chemistry: C.A. Burtis, E.R. Ashwood Tietz  
Notes on Clinical Chemistry- Principles of Internal Medicines: Whitby, Smith, Beckett, Walker, Harrison  
The structure and function of enzymes: S.A. Bbernhard  
Enzymes- biochemistry, Biotechnology, Clinical chemistry: J. Palmer  
Enzymes: Dixon, Webb, Thorne & Tipton  
Enzyme structure and Mechanism: Alan Fersht  
Enzymatic reaction mechanism: C. Walsh, F. Pub  
Basic Environmental Toxicology: Basic Environmental Toxicology: L. G Corkerhem and B.SS Shane  
Introduction to Food Technology: T. Shibamoto & L F Bzeidan  
Enzyme Assay: A Practical Approach: Eisenthal and Danson  
Biochemical, Physiological & Molecular Aspects of Human Nutrition: M. Stipa

**M. Sc. Biochemistry**  
**FOURTH SEMESTER** (January 2020 – June 2020)  
**Special Paper: PAPER- III (B): Nutraceutical Biochemistry and Functional Foods**  
**[Credit: 4 and Maximum Marks: 80]**

(Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words).

**Unit-I: Introduction to Nutraceuticals as Science:**

Historical perspective, classification, scope and future prospects. Scrutinising the term 'nutraceutical', Regulation of various countries. Medicinal Plants: Ethnomedicine in India, Applied aspects of the Nutraceutical Science. Sources of Nutraceuticals. Relation of Nutraceutical Science with other Sciences: Medicine, Human physiology, genetics, food technology, chemistry and nutrition

**Unit-II: Properties, structure and functions of various Nutraceuticals:**

Glucosamine, Octacosanol, Lycopene, Flavonoids, Carnitine, Melatonin and Ornithine alpha, ketoglutarate. Use of proanthocyanidins, grape products, flaxseed oil as Nutraceuticals.

Nutraceutical Industry and Market Information, New technologies in development of Nutraceuticals and functional foods

Functional Foods, Scope of Genetic engineering, Nutritional Genomics

**Unit-III: Food as remedies**



Nutraceuticals bridging the gap between food and drug, Special Dietary Needs, Disease and Nutrition; Nutraceuticals in treatment for cognitive decline, Nutraceutical remedies for common disorders like Arthritis, Bronchitis, circulatory problems, hypoglycemia, Nephrological disorders, Liver disorders, Osteoporosis, Psoriasis and Ulcers etc. Brief idea about some Nutraceutical rich supplements e.g. Bee pollen, Caffeine, Green tea, Lecithin, Mushroom extract, Chlorophyll, Kelp and Spirulina etc.

#### **Unit-IV: Anti-nutritional Factors present in Foods**

Types of inhibitors present in various foods and how they can be inactivated. General idea about role of Probiotics and Prebiotics as nutraceuticals. Recent advances in techniques & feeding of substrates. Assessment of nutritional status and Recommended Daily allowances.

#### **Lab Course:**

- Identification using characteristic features of nutraceutically important plants like; *Phyllanthus emblica*, *Curcuma longa*, *Zinziber officinalis*, Solanaceae (*Withania somnifera*), *Aloe vera*, Liliaceae (*Alium sativum*), Lamiaceae (*Ocimum sanctum*), Apiaceae (*Coriandrum sps*) and Liliaceae (*Asparagus sps.*), *Centella asiatica*.
- Study of following Parasites/ Vectors/ pests: Identification, Habits and control measures (museum Specimens / slides): *Entamoeba histolytica*, *Taenia sps*, *Ascaris lumbricoides*, *Ancylostoma dueodenaei*, *Trichinella spiralis*, *Trichura trichuris*, Mosquito (*Culex and Anopheles*), House fly, Green bottle fly, Head Louse, Cockroach (*Periplanata & Blatta*), bed bug, *Mus sps.* (Mouse) and *Rattus sps.* (House rat)
- Reactions of mono, di and polysaccharides and their identification in unknown mixtures
- Determination of Acid value, Saponification and Iodine number of natural fats & oils.
- Estimation of proteins with Bradford's and other methods.
- Extraction and estimation of total sugars from food products (dairy product, fruit juices, bread).
- TLC separation of Plant pigments – Curcumin and carotene.
- To isolate DNA and RNA from given plant/ animal material and estimate DNA by Diphenylamine (DPA) method and RNA by Orcinol reagent
- Extraction, purification and evaluation of activity of any one digestive enzyme (e.g. Beta amylase from sweet potato)
- Estimation of ascorbic acid from lemon & amla juice by titration method
- Estimation of crude fat contents of foods by Soxhlet's method (Butter, Margarine, edible oil).
- Estimation of total Nitrogen of foods by Kjeldahl and Micro Kjeldahl methods.
- Chromatography: Paper, TLC, adsorption, ion exchange, gel filtration, affinity, GC & HPLC.
- Separation of Milk proteins on Native and SDS gels.
- Preparation of plasmid DNA from given sample and its digestion by restriction enzymes and separation of DNA fragments by gel electrophoresis

#### **Books Recommended:**

- |                        |               |
|------------------------|---------------|
| 01. Stryer E.A.,       | Biochemistry  |
| 02. Zubay, Geoffrey L. | Biochemistry, |

- |                                          |                                                                      |
|------------------------------------------|----------------------------------------------------------------------|
| 03. Greenberg David M.                   | Metabolic Pathways, Vol 3                                            |
| 04. Todd and others,                     | Clinical Diagnosis and Management, 17th Ed,                          |
| 05. Gopalan C., et al                    | Dietary Allowances for Indians, NIH, Hyderabad.                      |
| 06. Anita F.P.                           | Clinical Dietetics and Nutrition, 4th Ed, 1997,                      |
| 07. Devlin, T.M.                         | Text Book of Biochemistry with Clinical Correlation,                 |
| 08. Mahan, L.K. & Ecott- Stump, S. [Ed.] | Krause's Food, Nutrition and Diet Therapy                            |
| 09. Lehninger                            | Nutrition Concepts & Controversies,                                  |
| 10. Davidson, S. Passmore, & Turswell    | Nutrition and dietetics                                              |
| 10. Goodhearth R., S. Shills             | Modern Nutrition in health and disease                               |
| 12. Nelson and Cox, 2000,                | Lehninger's Principles of Biochemistry,                              |
| 13. Robert E.C. Wildman,                 | Handbook of Nutraceuticals and Functional Foods                      |
| 16. Rapport and B. Lockwood              | Nutraceuticals                                                       |
| 15. W. Jeffrey, Hursts                   | Methods of Analysis for Functional Foods and Nutraceuticals          |
| 16. M. Maffei (Ed.)                      | Dietary Supplements of Plant Origin                                  |
| 17. Gunzler and Williams                 | Handbook of Analytical Techniques Vol. I,II ,                        |
| 18. Thomson                              | Herbal Medicines PDR 3rd ed. -                                       |
| 19. Gary, M & Giintert, E.               | Active Compounds in Foods Chemistry and Sensory Properties - I       |
| 20. Israel Goldberg                      | Functional foods, designer foods, pharma foods, Nutraceuticals,      |
| 21. P.D. Dabre                           | Introduction to Practical Molecular Biology,                         |
| 22. Ellyn Daugherty                      | Biotechnology Science for the new Millennium,                        |
| 23. T K Attwood, D J PSmith              | Bioinformatics Introduction -.                                       |
| 24. Primrose and RM Twyman               | Principals of Gene Manipulation and Genomics.                        |
| 25. Massimo Maffei                       | Dietary Supplements of Plant origin: a nutrition and health approach |
| 27. CCRUM                                | Herbal Drugs: Potential Antimalarial Herbal Drugs from South Asia.   |

## **M. Sc. Biochemistry**

**FOURTH SEMESTER (January 2020 – June 2020)**

### **Special Paper: PAPER- IV (A): Advanced Immunology, diagnostics and prophylaxis**

**[Credit: 4 and Maximum Marks: 80]**

(Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words).

**UNIT- I** Clonal selection theory- concept of antigen specific receptor. Organization and expression of immunoglobulin genes. Generation of antibody diversity. Light and heavy chain gene recombination. Recombination Signal Sequences. Heavy chain constant region genes. Class switching. T-cell receptor diversity.

**UNIT-II** Membrane and secreted immunoglobulins. Production of polyclonal and monoclonal antibodies- principle, technique and applications. Antibody engineering. Regulation of

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immune response by antigen, antibody, immune complex, MHC and cytokines. Immune response to infectious diseases: viral, bacterial and protozoal. Cancer and immune system. Nutrition and Immune response.

**UNIT-III** Principles of Immunodiagnosis. Antigen-antibody interactions. Precipitation reactions. Haemagglutination. Complement fixation test. Immunofluorescence assay: Fluorescence activated cell sorter (FACS) technique. Radio Immuno and Enzyme Immuno assays. Immunoblotting. Isolation of pure antibodies. Isolation of leucocyte population on density gradient. Effector cell assays. Plaque forming cell assay, ELISPOT assay, leucocyte migration inhibition technique, cytotoxicity assay.

**UNIT-IV** Active immunization (immunoprophylaxis): Principles of vaccination. Immunization practices. Passive immunization (immunotherapy). Role of vaccine in prevention of diseases: vaccines against important viral, bacterial, protozoan and parasitic diseases. DNA vaccines; Antiviral, antibacterial agents.

**Lab Course:**

1. Preparation of Parasite Antigen and analysis by PAGE
2. Immunizations and production of antibody
3. Antigen antibody reaction by Double Diffusion, Counter current and IEP, RID & EIA
4. Western Blot Analysis
5. Immunodiagnosis using commercial kits

**Books Recommended:**

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| R.A. Goldsby, T.J Kindt & B. A. Osborne | Kuby's Immunology:                       |
| E. Benjamini, R. Coico and G. Sunshine  | Immunology-A short Course                |
| Roitt, Brostoff and Male                | Immunology                               |
| William Paul                            | Fundamentals of Immunology               |
| Stewart Snell                           | Immunology, Immunopathology and Immunity |
| Elgert                                  | Understanding Immune System              |

**M. Sc. Biochemistry**  
**FOURTH SEMESTER** (January 2020 – June 2020)  
**Special Paper: PAPER- IV (B): Bioinformatics**  
**[Credit: 4 and Maximum Marks: 80]**

(Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words).

**Unit I Introduction to bioinformatics and data generation**

Bioinformatics and its relation with molecular biology. Examples of related tools (FASTA, BLAST, BLAT, RASMOL), databases (GENBANK, Pub med, PDB ) and software (RASMOL, Ligand Explorer).

Data generation; Generation of large scale molecular biology data. (Through Genome sequencing, Protein sequencing, Gel electrophoresis, NMR Spectroscopy, X-Ray Diffraction, and microarray). Applications of Bioinformatics.

**Unit II Biological Database and its Types**

Introduction to data types and Source. Population and sample. Classification and Presentation of Data. Quality of data, private and public data sources. General Introduction of Biological Databases; Nucleic acid databases (NCBI, DDBJ, and EMBL). Protein databases (Primary, Composite, and Secondary). Specialized Genome databases: (SGD, TIGR, and ACeDB). Structure databases (CATH, SCOP, and PDB sum)

**Unit III Data storage and retrieval and Interoperability**

Flat files, relational, object oriented databases and controlled vocabularies. File Format

(Genbank, DDBJ, FASTA, PDB, SwissProt). Introduction to Metadata and search; Indices, Boolean, Fuzzy, Neighboring search. Data exchange and integration. Ontologies, interchange languages and standardization efforts. General Introduction to XML, UMLS, CORBA, PYTHON and OMG/LIFESCIENCE.

**Unit IV Gene Expression and Representation of patterns and relationship**

General introduction to Gene expression in prokaryotes and eukaryotes, transcription factors binding sites. SNP, EST, STS.

Regular Expression, Hierarchies, and Graphical models (including Markov chain and Bayes notes). Genetic variability and connections to clinical data.

**Lab Course:**

01. Retrieval of sequences from NCBI, EBI and EMBL databases.
02. Retrieval of sequences from NBRF-PIR, SWISSPROT and P databases.
03. Transition and Translation of sequences.
04. Retrieval of genome from genome databases.
05. Exploring DIP and PPI.
06. Exploring BIND and PIM.
07. Exploring MINT and GRID.
08. Analysis of phylogenetic tree
09. Exploring PDB file.
10. Analysis of active site by pymol

**Books Recommended:**

- BAXEVANIS, AD & OUELLETTE, BFF : Bioinformatics: a practical guide to the analysis of genes and proteins. 2nd Ed.. 2002.
- BAXEVANIS, AD, DAVISON, DB, PAGE: Current protocols in bioinformatics. 2004.  
RDM & PETSKO, GA
- ORENGO, C, JONES, D & THORNTON, J : Bioinformatics: genes, proteins and computers. 2003
- Ingvar Eidhammer, Inge Jonassen, William R Taylor : Protein Bioinformatics. 2003
- HIGGINS, D & TAYLOR, W : Bioinformatics: sequence, structure, and databank. 2000.
- David Mount : Bioinformatics: sequence and genome analysis. 2004

**PT. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR**

**M. Sc. MICROBIOLOGY**

Scheme of Examination and Syllabus

July 2018 – December 2018

|                           | Paper No.    | Title of Paper                                                                                       | Marks      |              | Credit |
|---------------------------|--------------|------------------------------------------------------------------------------------------------------|------------|--------------|--------|
|                           |              |                                                                                                      | (External) | (Internal)** |        |
| FIRST Semester            | I*           | Cell Biology                                                                                         | 80         | 20           | 4      |
|                           | II           | Biomolecules                                                                                         | 80         | 20           | 4      |
|                           | III          | Microbiology                                                                                         | 80         | 20           | 4      |
|                           | IV           | Biology of Immune System                                                                             | 80         | 20           | 4      |
|                           | LC-I         | Lab Course I (Based on paper I & II)                                                                 | 80         | 20           | 2      |
|                           | LC-II        | Lab Course II (Based on paper III & IV)                                                              | 80         | 20           | 2      |
|                           | <b>Total</b> |                                                                                                      |            | 600          |        |
| January 2019 – June 2019  |              |                                                                                                      |            |              |        |
|                           | Paper No.    | Title of Paper                                                                                       | Marks      |              |        |
|                           |              |                                                                                                      | (External) | (Internal)   |        |
| SECOND Semester           | I            | Genetics and Molecular Biology                                                                       | 80         | 20           | 4      |
|                           | II           | Bioenergetics & Metabolism                                                                           | 80         | 20           | 4      |
|                           | III          | Instrumentation and Molecular Techniques                                                             | 80         | 20           | 4      |
|                           | IV           | Biometry, Computer and Scientometry                                                                  | 80         | 20           | 4      |
|                           | LC-I         | Lab Course I (Based on paper I & II)                                                                 | 80         | 20           | 2      |
|                           | LC-II        | Lab Course II (Based on paper III & IV)                                                              | 80         | 20           | 2      |
|                           | <b>Total</b> |                                                                                                      |            | 600          |        |
| July 2019 – December 2019 |              |                                                                                                      |            |              |        |
|                           | Paper No.    | Title of Paper                                                                                       | Marks      |              |        |
|                           |              |                                                                                                      | (External) | (Internal)   |        |
| THIRD Semester            | I            | Microbial Physiology                                                                                 | 80         | 20           | 4      |
|                           | II           | Fermentation Technology                                                                              | 80         | 20           | 4      |
|                           | III          | Environmental Microbiology                                                                           | 80         | 20           | 4      |
|                           | IV           | Medical Microbiology                                                                                 | 80         | 20           | 4      |
|                           | LC-I         | Lab Course I (Based on paper I & II)                                                                 | 80         | 20           | 2      |
|                           | LC-II        | Lab Course II (Based on paper III & IV)                                                              | 80         | 20           | 2      |
|                           | <b>Total</b> |                                                                                                      |            | 600          |        |
| January 2020 – June 2020  |              |                                                                                                      |            |              |        |
|                           | Paper No.    | Title of Paper                                                                                       | (External) | (Internal)   |        |
|                           |              |                                                                                                      |            |              |        |
| FOURTH Semester           | I            | Microbial Biotechnology                                                                              | 80         | 20           | 4      |
|                           | II           | Advanced Immunology, diagnostics and prophylaxis                                                     | 80         | 20           | 4      |
|                           | III          | <b>Special Paper-A:</b> Food Microbiology<br><b>Special Paper-B:</b> Microbial Ecology               | 80         | 20           | 4      |
|                           | IV           | <b>Special Paper-A:</b> Agricultural Microbiology<br><b>Special Paper-B:</b> Industrial Microbiology | 80         | 20           | 4      |
|                           | LC-I         | Lab Course I (Based on paper I & II)                                                                 | 80         | 20           | 2      |
|                           | LC-II        | Lab Course II (Based on paper III & IV)                                                              | 80         | 20           | 2      |
|                           | <b>Total</b> |                                                                                                      |            | 600          |        |
| <b>OR</b>                 |              |                                                                                                      |            |              |        |
|                           |              | <b>Project Work***</b>                                                                               |            |              |        |
|                           |              | Dissertation                                                                                         | 240        | 60           | 11     |
|                           |              | Seminar based on project                                                                             | 160        | 40           | 06     |
|                           |              | Viva-voce                                                                                            | 80         | 20           | 03     |
| <b>Total</b>              |              |                                                                                                      | 600        |              |        |
| <b>Grand Total</b>        |              |                                                                                                      | 2400       |              |        |

\* Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2

Page 1 of 21

marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words.

\*\* Each student will be evaluated continuously throughout the semester. There will be a class test based on each theory paper. The full marks will be 10 for each paper. There will be a poster/oral presentation based on each theory paper. The full marks will be 10 for each presentation. Each student will be required to submit a brief write-up (not more than 10 pages) on his/her poster/oral presentation.

\*\*\*A student of IV semester will have the choice to opt for project work in lieu of four theory papers and two lab courses provided he/she secures at least 75% or more marks in aggregate in semester I and II. The project has to be carried out in recognized national laboratories or UGC recognized universities. No student will be allowed to carry out project work in private laboratories/ college/ institutions, excluding the colleges recognized as research centers by the RDC of Pt. Ravishankar Shukla University, Raipur. The valuation of all the projects will be carried out by an external examiner and HoD of UTD or its nominee at the UTD Centre.

| Scheme for Lab Course (for each Semester) |                                 | Maximum Mark 100 |
|-------------------------------------------|---------------------------------|------------------|
| 1                                         | Major Exercise based on paper 1 | 20               |
| 2                                         | Minor Exercise based on paper 1 | 10               |
| 3                                         | Major Exercise based on paper 2 | 20               |
| 4                                         | Minor Exercise based on paper 2 | 10               |
| 5                                         | Spotting/ Interpretation****    | 10               |
| 6                                         | Viva- voce                      | 10               |
|                                           | Sub Total                       | 80               |
|                                           | Sessional (Internal)            | 20               |
|                                           | Total                           | 100              |

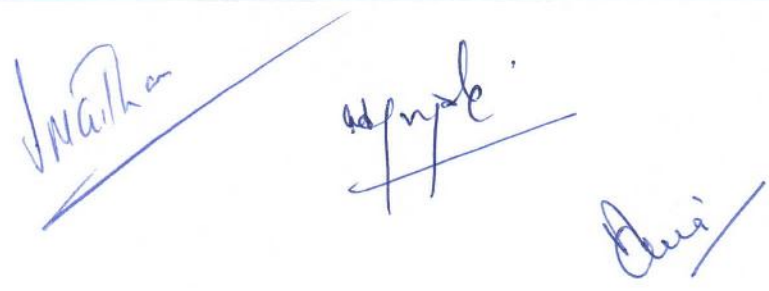
\*\*\*\* A student will be required to interpret on the displayed item/material

| <b>M. Sc. Microbiology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FIRST SEMESTER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| (July 2018 – December 2018)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b><u>PAPER I: CELL BIOLOGY</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Max. Mark 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words. |
| <b>UNIT I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Molecular organization of membranes - Asymmetrical organization of lipids, proteins and carbohydrates. Membrane transport: Passive transport, Osmosis, ion channels, membrane pumps and, Active transport: ATP-powered pumps-types, properties and mechanisms, electrical properties of membranes.                                                                                                                                                                                                                                                     |
| <b>UNIT II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Protein trafficking: Transport of proteins into mitochondria, chloroplast, endoplasmic reticulum and nucleus. Transport by vesicle formation: exocytosis, endocytosis and its molecular mechanism.                                                                                                                                                                                                                                                                                                                                                     |
| <b>UNIT III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Cell signaling: Signaling via G-protein linked and enzyme linked cell surface receptors, MAP kinase pathways.<br>Eukaryotic cell division cycle: different phases and molecular events, regulation and control of cell cycle.<br>Oncogenes: retinoblastoma, E2F and p53 proteins.<br>Apoptosis: regulation by CASPases and formation of apoptosome. Pro- and anti-apoptotic factors.                                                                                                                                                                   |
| <b>UNIT IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| States of chromosomes during cell cycle. Mitotic chromosome. Organization of genes in chromosomes. Banding pattern of chromosomes. Lampbrush and Polytene chromosomes. DNA packaging: Chromatin, nucleosomes, heterochromatin and euchromatin.                                                                                                                                                                                                                                                                                                         |



| <b>Lab Course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| 1. Study of chromosome behaviour during Mitosis and meiosis (Onion / Garlic root tips, Onion buds, human lymphocytes, rat or bird testis /grass hopper testis or any other materials).<br>2. Calculation of mitotic index in growing Onion / Garlic root tips<br>3. Squash preparation: Polytene chromosome (in chironomus / Drosophila or other insect salivary gland) and Barr body (in buccal epithelial cells).<br>4. Demonstration of secretory granules in the salivary gland cells of insect.<br>5. Demonstration of mitochondria by vital staining.<br>6. Study of permanent slides.<br>7. Estimation of DNA<br>8. Estimation of RNA<br>9. Sub-cellular fractionation and marker enzymes<br>10. Identification of biomolecules in different tissues by histochemical techniques<br>11. Preparation of mitotic plate by carmine squashing method and phase identification.<br>12. Demonstration of the nuclear matrix networks in onion cells.<br>13. Study of the effect of chemical agents on chromosomes plant cells.<br>14. Isolation of protoplast, measurement of cell density plating efficiency.<br>15. Preparation of Karyotype of metaphase plate.<br>16. Preparation of Meiotic plate and determination of phases.<br>17. Computation of Chiasma frequency and Terminalization of phases.<br>18. Micrometry and Camera Lucida drawings. |                                                      |
| <b>Books Recommended:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                      |
| H Lodish <i>et al.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Molecular Cell Biology                               |
| B Alberts <i>et al.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Essential Cell Biology                               |
| H Lodish <i>et al.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Molecular Cell Biology                               |
| B Alberts <i>et al.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Molecular Biology of the Cell                        |
| G Karp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Cell and Molecular Biology: Concepts and Experiments |

| <b>M. Sc. Microbiology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>FIRST SEMESTER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| (July 2018 – December 2018)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| <b><u>PAPER II: BIOMOLECULES</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| Max. Mark 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words. |  |
| <b>UNIT I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| Classification and function of Carbohydrates, Lipid:<br>Carbohydrate: Monosaccharides, homo and hetero-polysaccharides, Peptidoglycan glycoproteins and liposaccharide.<br>Lipids: Simple; cholestrol and complex; phospholipids and TAG                                                                                                                                                                                                                                                                                                               |  |
| <b>UNIT II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Classification and functions of amino acids, Synthesis of peptides, Proteins- properties, secondary, tertiary and quaternary structure of proteins, Ramchandran plot.<br>Nucleic Acid: Purine and pyrimidine, DNA-types, linking number, RNA-types                                                                                                                                                                                                                                                                                                     |  |
| <b>UNIT III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| Enzyme: apoenzymes, cofactors, coenzymes, active site, factors contributing to the catalytic efficiency of enzyme; enzyme kinetics- Michaelis-Menten equation, determination of Km, enzyme inhibition, allosteric enzymes, isoenzymes, multienzyme complexes                                                                                                                                                                                                                                                                                           |  |
| <b>UNIT IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <p>Structure and biological role of:<br/>         Porphyrins in biology, structure of hemoglobin and chlorophyll<br/>         Animal hormones: protein, peptide and steroid hormones.<br/>         Vitamins: fat and water soluble.</p>                                                                                                                                                                                                                                                                                                                                                                       |
| <p><b>Lab Course:</b></p> <ol style="list-style-type: none"> <li>1. Specific tests for sugars, amino acids and lipids</li> <li>2. Formal titration of amino acids</li> <li>3. Estimation of proteins using ninhydrin and biuret method</li> <li>4. Estimation of sugar by anthrone and Folin-Wu method.</li> <li>5. Saponification value and iodine number of fat.</li> <li>6. Estimation of ascorbic acid.</li> <li>7. Achromic point determination using salivary amylase</li> <li>8. Effect of ions on salivary amylase activity.</li> <li>9. Enzyme assay and kinetics (ex. Amylase, Protease)</li> </ol> |
| <p><b>Books Recommended:</b></p> <ul style="list-style-type: none"> <li>• Principles of Biochemistry by Nelson, Cox and Lehninger</li> <li>• Biochemistry by G. Zubay</li> <li>• Biochemistry by Stryer</li> <li>• Biochemistry by Garrett and Grosham</li> <li>• Text book of Biochemistry by West, Tood, Mason &amp; Bruglen</li> <li>• Biochemistry by White, Handler &amp; Smith</li> <li>• Biochemistry by D. Voet and J C Voet</li> </ul>                                                                                                                                                               |

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| <p><b>M. Sc. Microbiology</b><br/> <b>FIRST SEMESTER</b><br/>         (July 2018 – December 2018)<br/> <b><u>PAPER III: MICROBIOLOGY</u></b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>Max. Mark 80</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>Each theory paper will have questions divided into four sections, A, B, C &amp; D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words.</p>                             |
| <p><b>UNIT I</b></p> <p>General characteristics of fungi, classification of fungi, life cycle of selected fungal genus (Aspergillus, Pencillium, Fusarium and Mucor). Economic importance of fungi.<br/>         Fungi and bioremediation, parasitism, mutualism and symbiosis with plants and animals. Heterothallism, sex hormone in fungi, Mycorrhiza, VAM.<br/>         Algae: Distribution, classification, reproduction, ecology and importance.</p>                                                                                                                                    |
| <p><b>UNIT II</b></p> <p>Morphology and ultra structure of bacteria:<br/>         Morphological types, cell wall of archaeobacteria, gram negative, gram positive eubacteria.<br/>         Cell membranes – structure, composition and properties. Structure and function of flagella, cilia, pili, gas vesicles.<br/>         Cyanobacteria, protozoa, mycoplasma and Rickettsia.<br/>         Gene transfer mechanisms: transformation, transduction, conjugation and transfection.<br/>         Plasmids: F- factors, colicins and col factors, plasmids as a vector for gene cloning.</p> |
| <p><b>UNIT III</b></p> <p>Nutritional types (autotrophs, heterotrophs, phototrophs, chemotrophs), growth curves, measurement of growth, factors affecting growth, generation time, growth kinetics.<br/>         Batch and continuous culture, asynchronous, synchronous culture.<br/>         Basis of microbial classification, classification and salient feature of bacteria according to Bergey's manual of determinative bacteriology, cyanobacteria, prochlorons and cyanelles.</p>                                                                                                    |
| <p><b>UNIT IV</b></p> <p>Viruses: Structure and classification of viruses; General Concepts: Viral genome, capsids, envelopes, viroids and prions).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                       |



Virus reproductions: Lysogeny and Lytic phase,  
Bacteriophages and their types.

General Introduction to Plant and animal viruses (TMV, HIV, Hepatitis virus, H1N1 virus, Small Pox virus), hemorrhagic viral fever, Route of transmission of viruses, Laboratory diagnosis and treatment, Antiviral therapy.

**Lab Course:**

1. Glassware preparation and sterilization techniques- wet heat- dry heat- filter types- laminar flow chamber types- CDC- safety levels.
2. Preparation of liquid & solid media, plating, pouring, inoculation and incubation for growth of microorganism
3. Methods of obtaining pure culture of microorganisms (a) streak plate (b) Pour plate, and (c) spread plate methods
4. Microscopic examination of the microorganisms, identification and staining methods
5. Micrometry and camera lucida drawings
6. Study of bacterial growth by turbidimetry/ spectrophotometry
7. Biomass measurement for fungi
8. Isolation and enumeration of microorganisms from soil by serial dilution agar plating method.
9. Enumeration of viruses by plaque assay technique.
10. Motility of bacteria by hanging drop technique.

**Books Recommended:**

- Microbiology: L.M. Prescott, J.P. Harley and D.A. Klein, McGraw Hill Publication.
- General Microbiology: Stanier, Ingraham, Wheelis and Painter, Mac Millian Press
- Principles of Microbiology: R.M. Atlas
- Microbiology: Peleczar, Chan & Krieg
- General Virology: Luria, Darnell, Baltimore and Campell
- Introduction to Mycology: CJ Alexopoulos and CW Mims, Wiley Eastern Ltd, New Delhi
- Principles of Virology: Molecular Biology, Pathogenesis, and Control of Animal Viruses: S. J. Flint, V. R. Racaniello, L. W. Enquist, V. R. Rancaniello, A. M. Skalka

**M. Sc. Microbiology**

**FIRST SEMESTER**

(July 2018 – December 2018)

**PAPER IV: BIOLOGY OF IMMUNE SYSTEM**

Max. Mark 80

Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words.

**UNIT I**

Innate immune mechanism and characteristics of adaptive immune response. Cells of immune system: Hematopoiesis and differentiation, mononuclear cells and granulocytes, antigen presenting cells.

Primary and Secondary lymphoid organs and tissues.

Ontogeny and phylogeny of lymphocytes. Lymphocyte traffic.


**UNIT II**

Antigen receptor molecules: B-cell receptor complex, Immunoglobulin- structure, types and function. T-cell receptor complex. Major Histocompatibility Complex- types, structural organization, function and distribution. Transplantation and Rejection. Complement system.

**UNIT III**

Antigens: nature of antigens, factor affecting immunogenicity, Haptens and super antigens. Antigenic determinants. Recognition of antigens by T and B cell.

Antigen processing. Role of MHC molecules in antigen presentation and co-stimulatory signals. Antigen and antibody interaction.



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| <b>UNIT IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Cell mediated immune response. Cytokines and interleukins- structure and function.<br>Immunity to infections. Hypersensitive reactions and their types.                                                                                                                                                                                                                                                                                                                                                  |
| <b>Lab Course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <ol style="list-style-type: none"> <li>1. Identification of cells of immune system</li> <li>2. Separation of mononuclear cells by Ficoll-Hypaque</li> <li>3. Identification of Lymphocytes and their subsets</li> <li>4. Lymphoid organs and their microscopic organization</li> <li>5. Isolation and purification of Antigens</li> <li>6. Purification of IgG from serum</li> <li>7. Estimation of Levels of gamma globulins and A/G ratio in blood</li> <li>8. Antigen antibody interaction</li> </ol> |
| <b>Books Recommended:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• Kuby's Immunology: R.A. Goldsby, Thomas J Kindt and Barbara A. Osborne</li> <li>• Immunology- A short Course: E. Benjamini, R. Coico and G. Sunshine</li> <li>• Immunology: Roitt, Brostoff and Male</li> <li>• Fundamentals of Immunology: William Paul</li> <li>• Immunology: Tizard</li> <li>• Immunology: Abbas <i>et al</i></li> </ul>                                                                                                                     |

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| <b>M. Sc. Microbiology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>SECOND SEMESTER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| (January 2019 – June 2019)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b><u>PAPER I: GENETICS AND MOLECULAR BIOLOGY</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Max. Mark 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words. |
| <b>UNIT – I:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene mapping methods: Linkage maps, tetrad analysis, mapping with molecular markers, mapping by using somatic cell hybrids, development of mapping population in plants, complementation analysis.<br>Mutation: Types, mutagens and detection.<br>Mutant types – lethal, conditional, biochemical, loss of function, gain-of-function, germinal verses somatic mutants, insertional mutagenesis.                                                                                                                                                       |
| <b>UNIT – II:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| DNA replication in eukaryotes and prokaryotes : enzymes involved, replication origin and replication fork, fidelity of replication, extrachromosomal replicons.<br>DNA damage and repair mechanisms: Repair of Base-excision, Nucleotide excisions, Mismatch and Double Strand. p53 and p21.                                                                                                                                                                                                                                                           |
| <b>UNIT – III:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| RNA synthesis and processing: enzymes involved, formation of initiation complex, transcription activator and repressor, elongation, and termination, RNA processing, capping, RNA editing, splicing, and polyadenylation, RNA transport.                                                                                                                                                                                                                                                                                                               |
| <b>UNIT – IV:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Protein synthesis and processing: Ribosome, formation of initiation complex, initiation factors, elongation and elongation factors and their regulation, termination.<br>Aminoacylation of tRNA, tRNA-identity, aminoacyl tRNA synthetase, and translational proof-reading, translational inhibitors.<br>Post Translational modification of proteins.                                                                                                                                                                                                  |




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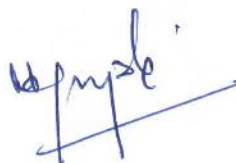
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Lab Course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <ol style="list-style-type: none"> <li>1. Isolation, purification and estimation of RNA</li> <li>2. Isolation, purification and estimation of DNA</li> <li>3. Determination of T<sub>m</sub> of nucleic acid</li> <li>4. Fraction of poly (A) RNA</li> <li>5. Restriction Mapping</li> <li>6. Restriction Digestion</li> <li>7. Ligation</li> <li>8. DNA molecular size determination</li> </ol>                                                                                                                             |
| <b>Books Recommended:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>H Lodish <i>et al.</i>: Molecular Cell Biology<br/> B Alberts <i>et al.</i> : Essential Cell Biology<br/> B Alberts <i>et al.</i>: Molecular Biology of the Cell<br/> G Karp : Cell and Molecular Biology: Concepts and experiments<br/> JD Watson <i>et al.</i> : Molecular Biology of the Gene<br/> J Wilson and T Hunt : Molecular Biology of the Cell: The Problems<br/> B Lewin : Genes VIII<br/> JE Krebs <i>et al.</i> (Ed.): Genes X (Lewin's), Jones and Bartlett Publishers, Sudbury, Massachusetts, (2011)</p> |

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| <b>M. Sc. Microbiology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>SECOND SEMESTER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| (January 2019 – June 2019)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b><u>PAPER II: BIOENERGETICS AND METABOLISM</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Max. Mark 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words. |
| <b>UNIT I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| First and second laws of thermodynamics. Gibbs free energy G, free energy change $\Delta G$ , endergonic & exergonic reactions,. Standard state free energy changes- $\Delta G$ , $\Delta G^0$ and $\Delta G'^0$ , Relationship between equilibrium constant and $\Delta G'^0$ , Feasibility of reactions. ATP-Structure, properties and energy currency of the cell, Importance of Coupled reactions, other high energy compounds.                                                                                                                    |
| <b>UNIT II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Carbohydrate metabolism: Glycolysis, Kreb's cycle, glycogenolysis, glycogenesis, pentose phosphate pathway, gluconeogenesis, and glyoxylate pathway. Regulation of carbohydrate metabolism.                                                                                                                                                                                                                                                                                                                                                            |
| <b>UNIT III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Electron transport and oxidation phosphorylation: electron carriers, complexes I to IV, substrate level phosphorylation, mechanism of oxidative phosphorylation. Shuttle system for entry of electron.<br>Biosynthesis and degradation of Lipids. Regulation of lipid metabolism                                                                                                                                                                                                                                                                       |
| <b>UNIT IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Nitrogen Assimilation: Overview of Nitrogen in biosphere and uptake by organism.<br>Biosynthesis and degradation of amino acids. Regulation of amino acid metabolism<br>Biosynthesis and degradation of purine and pyrimidine nucleotides.                                                                                                                                                                                                                                                                                                             |
| <b>Lab Course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ol style="list-style-type: none"> <li>1. Protein estimation by Lowry, Bradford and Spectrophotometric method</li> <li>2. Estimation blood cholesterol</li> <li>3. Estimation of sugar by Nelson- Somogyi and Benedict's reagent</li> <li>4. Isolation and estimation of lipid from seeds and egg.</li> <li>5. Estimation of inorganic and total phosphorus by Fiske-Subba Rao method</li> <li>6. Assay of phosphatases in blood and seeds</li> <li>7. Urease estimation in plant tissues</li> </ol>                                                   |

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| <b>Books Recommended:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <ul style="list-style-type: none"> <li>• Principles of Biochemistry by Nelson, Cox and Lehninger</li> <li>• Biochemistry by G. Zubay</li> <li>• Biochemistry by Stryer</li> <li>• Biochemistry by Garrett and Grosham</li> <li>• Text book of Biochemistry by West, Tood, Mason &amp; Bbruglen</li> <li>• Biochemistry by White, Handler &amp; Smith</li> <li>• Biochemistry by with clinical application</li> <li>• Biochemistry by D Voet and J C Voet</li> <li>• Enzymes by Dixon and Webb</li> <li>• Fundamentals of Enzymology by Price and Steven</li> <li>• Practical Biochemistry by Plummer</li> <li>• Enzyme Biotechnology by G. Tripathi</li> <li>• Enzyme Reaction Mechanism by Walsh.</li> <li>• Enzyme Catalysis and Regulation by Hammes</li> </ul> |

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| <b>M. Sc. Microbiology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>SECOND SEMESTER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| (January 2019 – June 2019)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b><u>PAPER III: INSTRUMENTATION AND MOLECULAR TECHNIQUES</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Max. Mark 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words. |
| <b>UNIT I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Centrifugation: Principle, techniques. Preparative, analytical and ultracentrifuges, sedimentation coefficient and factors affecting sedimentation coefficient. Application of centrifugation.<br>Photometry: Basic principles of colorimetry, UV- visible spectrophotometry & IR- spectrophotometry. Spectrofluorometry<br>Atomic absorption spectroscopy: Principle, Instrumentation and applications                                                                                                                                                |
| <b>UNIT II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Microscopic techniques: light microscopy, phase-contrast microscopy, scanning and transmission electron microscopy, different fixation and staining techniques for EM, freeze-etch and freeze-fracture methods for EM, image processing methods in microscopy.                                                                                                                                                                                                                                                                                         |
| <b>UNIT III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Chromatography: Paper and Thin Layer Chromatography. Gel filtration, Ion exchange chromatography and Affinity chromatography. Gas-liquid chromatography and HPLC.<br>Histochemical and immunotechniques: Detection of molecules using ELISA, RIA, western blot, immunoprecipitation, flow cytometry and immunofluorescence microscopy, detection of molecules in living cells, In situ localization; FISH and GISH.                                                                                                                                    |
| <b>UNIT IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Electrophoresis: Agarose, PAGE, 2D-E.<br>Radioactivity: GM counter, liquid Scintillation counter, solid Scintillation counter, gamma counters.<br>Lyophilization: Principle, instrumentation and applications.<br>Microtomy: types, principle and applications                                                                                                                                                                                                                                                                                         |
| <b>Lab Course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• Verification of Beers Law</li> <li>• Determination of absorption maxima</li> <li>• Quantitative determination, Enzyme kinetics</li> <li>• Amino acid and carbohydrate separation by paper and TLC</li> <li>• Ion exchange and gel filtration chromatography</li> </ul>                                                                                                                                                                                                                                        |


- SDS Polyacralamide Gel Electrophoresis
- DNA electrophoresis
- Isoenzymes
- Separation of sub-cellular organelles by differential centrifugation.
- Isolation of DNA and Agarose gel Electrophoresis
- Amplification of RAPD and AFLP markers.
- Isolation of RNA and Electrophoresis of RNA on denaturing gels.
- cDNA synthesis and cloning
- Isolation of Protein and SDS-PAGE
- In vitro DNA ligation, transformation of E. coli
- Characterization of transformants: DNA gel electrophoresis, Restriction map analysis

### Books Recommended:

- |                                                               |                                                                              |
|---------------------------------------------------------------|------------------------------------------------------------------------------|
| • K Wilson and John Walker                                    | Practical Biochemistry: Principles & Techniques                              |
| • RF Boyer                                                    | Biochemistry Laboratory: Modern Theory & Techniques                          |
| • S Carson, H Miller and D Scott                              | Molecular Biology Techniques: A Classroom Laboratory Manual                  |
| • TC Ford and J. M. Graham                                    | An Introduction to Centrifugation                                            |
| • R Baserga and D Malamud                                     | Autoradiography: techniques and application                                  |
| • T Chard                                                     | An Introduction to Radioimmunoassay and Related Techniques , Volume 6        |
| • MD Bruch                                                    | NMR Spectroscopy Techniques                                                  |
| • BA Wallace and R William                                    | Modern Techniques for Circular Dichroism and Synchrotron Radiation, Volume 1 |
| • J Sambrook, EF Rritsch and I Maniatis                       | Molecular cloning: A Laboratory Manual                                       |
| • PD Dabre                                                    | Introduction to Practical Molecular Biology                                  |
| • JD Watson, NH Hopkins, JW Roberts, JA Steitz and AM Weiner  | Molecular Biology of Gene (4 <sup>th</sup> Edition)                          |
| • J Darnell, H Lodish and D Baltimore                         | Molecular Cell Biology (2 <sup>nd</sup> Edition)                             |
| • B Alberts, D Bray, J Lewis, M Raff, K Roberts and JD Watson | Molecular Biology of the Cell (2 <sup>nd</sup> Edition)                      |
| • Benjamin Lewin                                              | Gene VII                                                                     |
| • JM Walker and R Rapley                                      | Molecular Biology and Biotechnology                                          |
| • SB Primrose                                                 | Molecular Biotechnology                                                      |

## M. Sc. Microbiology

### SECOND SEMESTER

(January 2019 – June 2019)

### PAPER IV: BIOMETRY, COMPUTER AND SCIENTOMETRY

Max. Mark 80

Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words.

#### UNIT I

Introduction to biostatistics. Types of biological data: data on different scales. Frequency distributions. Cumulative frequency distributions. Random sampling. Parameters and statistics. Measures of central tendency and dispersion: Mean, Median, Mode, Range, Variance and Standard deviation. Coefficient of variation. The effects of coding data. Data transformations: Log-transformation, Square-root transformation

Page 9 of 21

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and Arcsine transformation. Distribution: normal and binomial. Probability: Basic laws of probability, addition law, multiplication law. Probability and frequency.

## UNIT II

Statistical errors in hypothesis testing. Testing goodness of fit: Chi-square goodness of fit. Heterogeneity Chi-square. The 2 x 2 contingency table. One sample hypothesis. Two- sample hypothesis. Testing for difference between two means (*t*-test). Testing for difference between two variances (*F*-test). The paired sample *t*-test. Multiple-sample hypothesis (ANOVA): Single factor and two factors ANOVA. Multiple comparisons: Duncan's multiple-range tests. Simple linear regression. Regression vs. Correlation. Regression equation. Interpretations of regression functions. Simple linear correlation. The correlation coefficient.

## UNIT III

Introduction to MS-Office software: Word processing; Creating new document, Editing documents, Adding graphics to documents, Word tables. Management of Workbook & Worksheets; Applications, Features, Using formulas and functions, Features for Statistical data analysis, Generating charts/ graph. Presentation software; Working in PowerPoint, Creating new presentation, Working with slides.

## UNIT IV

Introduction to Internet and Applications. Basics of internet, e-mailing, Search engine – Google and Yahoo; Pubmed, Scopus, Web of Science, Google Scholar, Indian Citation Index, Science Citation Index (SCI), h-index, i-10-index. Journal Impact Factor (JIF). Introduction to Plagiarism and Cyber laws.

## Lab Course:

1. Exercises for data distribution
2. Exercises for computation of measures of central tendency
3. Exercises for computation of measures of variability
4. Computation of correlation coefficient, *r*, and regression constants
5. Data analysis by ANOVA and multiple-range tests
6. Hypothesis testing by *t*-test, *F*-test, and Chi-square test
7. Graphical presentation of data using a suitable package
8. Statistical analysis of a data using a suitable package
9. Preparation of document using a suitable package
10. Preparation of slides using a suitable package

## Books Recommended:

|                                      |                                                                             |
|--------------------------------------|-----------------------------------------------------------------------------|
| Campbell RC                          | Statistics for biologists                                                   |
| Zar JH                               | Biostatistical Analysis                                                     |
| Wardlaw AC                           | Practical Statistics for Experimental Biologists                            |
| Snedecor GW & Cochran WG             | Statistical Methods                                                         |
| Sokal RR & Rohlf FJ                  | Introduction to Biostatistics                                               |
| Sumner M                             | Computers: Concepts & Uses                                                  |
| White R                              | How Computers Work                                                          |
| Cassel P <i>et al.</i>               | Inside Microsoft Office Professional                                        |
| Coleman P and Dyson P                | Mastering Internets                                                         |
| Gralla P                             | How the Internet Works                                                      |
| Shelly GB, Vermaat ME,<br>Cashman TJ | Microsoft 2007: Introductory Concepts and Techniques                        |
| Habraken J                           | Microsoft Office 2003 All in One<br>Microsoft Office 2010 In Depth          |
| Gilmore B                            | Plagiarism: Why it happens, How to prevent it?                              |
| Buranen L and Roy AM                 | Perspectives on Plagiarism and Intellectual Property in a Post-Modern World |
| Kumar Anupa P                        | Cyber Law                                                                   |
| Sood V                               | Cyber Law Simplified                                                        |

**M. Sc. Microbiology**

**THIRD SEMESTER**

(July 2019 – December 2019)

**PAPER I: MICROBIAL PHYSIOLOGY**

Max. Mark 80

Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words.

**UNIT - I**

Aerobic metabolism of methane and methanol: Methane and methanol users, Oxidation of methane, Formaldehyde and formic acid, assimilation of C-1 compounds.

Anaerobic respiration: Sulphur compounds and nitrate as electron acceptors, electron transport in  $SO_4$  and  $NO_3$  reducers. Anaerobic metabolism of glucose, Fermentation process, modes of glucose fermentation (lactic acid, ethanol, acetic acid, butyric acid, acetone and butanol, formate and propionate). Transport of nutrients across membrane.

**UNIT - II**

Biosynthesis of peptidoglycan, teichoic acid, lipopolysaccharide, biosynthesis and degradation of essential amino acids, microbial degradation of aromatic, polycyclic and halogenated aromatic compounds. Microbial metabolism of hydrogen.

**UNIT - III**

Microbial photosynthesis: Historical account, structure of photosynthetic pigments i.e., chlorophylls and bacterio-chlorophylls, carotenoids, phycobilins, primary photochemistry and electron transport (light harvesting, charge-separation and electron transport in anoxygenic photosynthesis), ATP synthesis. Eubacterial photosynthetic microbes, development of photosynthetic apparatus, carbon metabolism. Cynobacterial organization of photosynthetic apparatus. Halobacterial photo-phosphorylation.

**UNIT - IV**

Nitrogen metabolism: Biological nitrogen fixation, Mechanism of nitrogen fixation, ammonia assimilation, properties and regulation of glutamine synthetase, glutamate synthetase, glutamate dehydrogenase. Biochemistry of methanogenesis; bio-transformation of steroid and non-steroid compounds.

**Lab Course:**

1. Qualitative of assay of different extra-cellular enzymes
2. Quantitative assay of alkaline and acid phosphatases from microorganisms.
3. Determination of  $K_m$  value of beta- fructofuranosidase from yeast
4. Antibiotic sensitivity test
5. Measurement of CM-cellulase by viscometric and reducing sugar method.
6. Experiment on production of enzymes and optimizing parameters for enzyme production in shake flask culture using *Aspergillus niger*, *Saccharomyces cerevisiae* for production of amylase, invertase respectively.
7. Experiment on production of citric acid and optimizing parameters for citric acid production in shake flask culture using *Aspergillus niger*.

**Books Recommended:**

1. Brown TA (1999) Genome. John Wiley & Sons (Asia) PTE. LTD.
2. Goeddel DV (1990) Methods in Enzymology, vol 185, Gene Expression Technology. Academic Press, San Diago.
3. Kaufman PB, Wu W, Kim D and Cseke LJ (1995) Molecular and Cellular Methods in Biology and Medicine. C. Press, Florida.
4. EL-Mansi E.M.T. and Bryce C.F.A. Fermentation Microbiology and Biotechnology. Taylor & Francis.

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| <b>M. Sc. Microbiology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |
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| <b>THIRD SEMESTER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |
| (July 2019 – December 2019)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |
| <b><u>PAPER-II: FERMENTATION TECHNOLOGY</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Max. Mark 80 |
| <p>Each theory paper will have questions divided into four sections, A, B, C &amp; D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words.</p>                                                                                                                                                                                                                                                                                                              |              |
| <b>UNIT – I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |
| <p>General Considerations: Fermentation biotechnology – An historical perspective, metabolic pathways and metabolic control mechanisms, primary and secondary metabolites, genetic regulation and catabolite repression, Fermentation kinetics, kinetics of substrate utilization, product formation.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |
| <b>UNIT – II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
| <p>Types of bio-reactors, their design and instrumentation: Fed batch bio-reactors, continuous stirred tank bio-reactors, plug flow tubular reactors; multiphase reactors, packed bed, bubble column, fluidized bed and trickle bed bio-reactors, animal and plant cell bio-reactors, non-ideal mixing, batch and continuous sterilization, immobilized bio-catalysts, sensors for medium and gases.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |
| <b>UNIT - III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |
| <p>Industrial production of microbial biomass (SCP, and mushrooms), alcohol, organic acid (citric acid, gluconic acid, itaconic acid), amino acids (L- glutamic acid, L- lysine and L-aspartic acid), enzymes and antibiotics (Penicillin), microbial polysaccharides and polyesters.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |
| <b>UNIT – IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
| <p>Scale up, instrumentation control, Bio-sensors in bio-process monitoring and control. Downstream processing: Removal of microbial cells and solid matter, precipitation, filtration, centrifugation, disintegration of cells, extraction methods, concentration methods, purification and resolution of mixtures, drying and crystallization.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |
| <b>Lab Course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |
| <ol style="list-style-type: none"> <li>1. Experiment on production of alcohol and optimizing parameters for alcohol production in shake flask culture using <i>Saccharomyces cerevisiae</i>.</li> <li>2. Experiment on production and optimizing parameters for SCP in shake flask culture.</li> <li>3. Experiment on production of enzymes and optimizing parameters for enzyme production in solid-state fermentation using wheat bran and other agricultural solid waste.</li> <li>4. Protein purification methods: affinity chromatography, ion exchange and gel filtration.</li> <li>5. Recovery of products from solid state cultures -Recovery of intracellular products: Cell disruption procedures by sonication,</li> <li>6. Carbohydrate catabolism by microorganisms (oxidation and fermentation of glucose)</li> <li>7. Fermentation of carbohydrates.</li> </ol> |              |
| <b>Books Recommended:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |
| <ul style="list-style-type: none"> <li>• EL-Mansi E.M.T. and Bryce C.F.A. Fermentation Microbiology and Biotechnology. Taylor &amp; Francis.</li> <li>• Alberghina Lilia. Protein Engineering in Industrial Biotechnology. Harwood Academic Publishers.</li> <li>• Jogdand S. N. Gene Biotechnology. Himalaya Publishing House.</li> <li>• Olguin J. Eugenia, Sanchez Gloria &amp; Hernandez Elizabeth. Environmental Biotechnology and Cleaner Bioprocesses. Taylor &amp; Francis.</li> <li>• Prescott &amp; Dunn's. Industrial Microbiology. 4<sup>th</sup> ed, CBS publishers &amp; Distributors.</li> <li>• Bullock John and Kristiansen Bjorn. Basic Biotechnology. Academic Press.</li> <li>• A.H. Patel. Industrial Microbiology</li> </ul>                                                                                                                             |              |

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**M. Sc. Microbiology**  
**THIRD SEMESTER**  
(July 2019 – December 2019)

**PAPER III: ENVIRONMENTAL MICROBIOLOGY**

Max. Mark 80

Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words.

**UNIT – I**

Distribution and ecology of microorganism: air spora- concepts and components, indoor and outdoor air spora, aeroallergens, Ecosystem- concept, components, food chains, food webs, and trophic levels. Energy transfer efficiencies between trophic levels. Environmental factors influencing the growth and survival of microorganism. Physical factors- temperature, light, osmotic pressure and hydrostatic pressure. Chemical factors- pH, O<sub>2</sub> and CO<sub>2</sub>. Microorganisms of extreme environments: psychrophiles, mesophiles, thermophiles, acidophiles, alkalophiles, halophiles and specific habitats.

**UNIT – II**

Microbiology of water: aquatic ecosystems-types- fresh water (ponds, lakes, streams) - marine (estuaries, mangroves, deep sea, hydrothermal vent, salt pans, coral reefs). Zonation of water ecosystems- upwelling- eutrophication- food chain. Drinking and potable water, ecology of polluted water, microbiological treatment processes. Waste water disposal and reclamation. Brief account of major water borne diseases and their control measures.

**UNIT – III**

Soil microbiology: Micro flora of various soil types (bacteria and nematodes): rhizosphere and phyllosphere, Microbial interactions: symbiosis, mutualism, commensalism, competition, amensalism, synergism, parasitism and predation, Phosphate solubilizing organisms, Biogeochemical cycles and Microbes, Biological N<sub>2</sub> fixing organisms, extracellular enzymes, Ecology of litter decomposition.

**UNIT – IV**

Biodegradation of lingo-cellulose and hydrocarbons, oil spills and superbug. Composting, treatment of solid and liquid wastes. Bioaccumulation of metals and detoxification-biopesticides; biodeterioration of materials, GMO and their impact.

**Lab Course:**

1. BOD & COD estimation in water sample
2. Study of microbial contaminants from water and wastewater.
3. Study of air borne microorganisms using various methods.
4. Assay of anti-fungal and antibacterial properties of agro-chemicals and fungicides.
5. Assessment of quality of oils using saponification value, iodine number, and free fatty acid composition.
6. Study of thermophilic microorganisms.
7. Bacteriological examination of water by multiple-tube fermentation test.
8. Determination of coliforms to determine water purity using membrane filter method.
9. Lipase production test.
10. Isolation of Rhizobium from root nodule.
11. Measurement of spore size using micrometry
12. Isolation of microorganisms from rhizosphere and phylloplane.

**Books Recommended:**

- Michael, T. Madigan; John. M. Mmmartinko and Jack Parker. Brock. Biology of Microorganisms.
- Microbiology of Extreme Environments edited by Clive Edwards
- Olguin J. Eugenia, Sanchez Gloria & Hernandez Elizabeth. Environmental Biotechnology and Cleaner Bioprocesses. Taylor & Francis.
- Michel. R. Introduction to Environmental Microbiology. 1999

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| <b>M. Sc. Microbiology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>THIRD SEMESTER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| (July 2019 – December 2019)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b><u>PAPER-IV: MEDICAL MICROBIOLOGY</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Max. Mark 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words. |
| <b>UNIT – I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Normal microbial flora of human body, role of resident flora, host microbe interactions. Classification of medically important microorganisms. Infection and infectious process - routes of transmission of microbes in the body. Source of infection for man; vehicles or reservoirs of infection. Mode of spread of infection. Pathogenesis: Infectivity and virulence.                                                                                                                                                                              |
| <b>UNIT –II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Classification of pathogenic bacteria. <i>Staphylococcus</i> , <i>Streptococcus</i> , <i>Pneumococcus</i> , <i>Neisseria</i> , <i>Corynebacterium</i> , <i>Bacillus</i> , <i>Clostridium</i> , Non sporing Anaerobes, Organism belonging to Enterobacteriaceae, vibrios, Non fermenting gram negative bacilli <i>Yersinia</i> ; <i>haemophilus</i> ; <i>Bordetelia</i> ; <i>Brucella</i> ; <i>Mycobacteria</i> , <i>Spirochaetes</i> , <i>Actinomycetes</i> ; <i>Rickettsia</i> , <i>Chlamdiae</i> .                                                   |
| <b>UNIT- III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| General properties of Viruses; Viruses Host Interactions, Pox viruses, Herpes viruses, Adeno viruses; Picarno viruses; Orthomyxo viruses; Paramyxo viruses; Arboviruses, Rhabdo viruses, Hepatitis viruses; Oncogenic viruses; Human Immuno deficiency viruses.                                                                                                                                                                                                                                                                                        |
| <b>UNIT- IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Mycology - Human mycotic infections caused by Dermatophytes, Histoplasma, Cryptococcus, Candida, opportunistic mycoses. Mycotoxins. Description and classification of pathogenic fungi and their laboratory diagnosis.<br>Parasitology - Medical importance of Entamoeba, Giardia, Plasmodium, Taenia, Ascaris, Wucherhiria. Laboratory techniques in parasitology                                                                                                                                                                                     |
| <b>Lab Course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1. Identification of micro flora of mouth, skin and wounds<br>2. Identification of enteric pathogens by TSIA medium<br>3. Identification of dermatophytic fungi<br>4. Identification of important human parasites<br>5. IMVIC test/other specific tests                                                                                                                                                                                                                                                                                                |
| <b>Books Recommended:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>• Prescott &amp; Dunn's. Microbiology. CBS Publishers &amp; Distributors.</li> <li>• Anantnarayan R and Panikar CKJ: Text book of Microbiology, Orient Blackswan Pvt. Ltd.</li> <li>• Broude AI: Medical Microbiology and Infectious Diseases, WB Saunders Co.</li> <li>• Chapel and Haeney: Essentials of Clinical Immunology, Blackwell Scientific Publications</li> <li>• Forbes BA, Sahm DF and Weissfeld AS: Bailey &amp; Scott's Diagnostic Microbiology, Mosby</li> </ul>                                |

|                                                |
|------------------------------------------------|
| <b>M. Sc. Microbiology</b>                     |
| <b>FOURTH SEMESTER</b>                         |
| (January 2020 – June 2020)                     |
| <b><u>PAPER-I: MICROBIAL BIOTECHNOLOGY</u></b> |
| Max. Mark 80                                   |





Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words.

#### UNIT – I

Techniques of Microbial technology: Scope of genetic engineering, restriction and modification enzymes, ligation and transformation, agarose and polyacrylamide gel electrophoresis, Southern, northern, western blotting, polymerase chain reaction, DNA sequencing, cloning vectors- plasmids, bacteriophages, phagemids, cosmids. YAC, BAC.

#### UNIT – II

Basics of Genomics, RNA interference, Cloning strategies, cDNA synthesis and cloning, mRNA enrichment, DNA primers, linkers, adaptors and their synthesis, library construction and screening; Cloning interacting genes, two and three hybrid systems, cloning differentially expressed genes, nucleic acid microarrays; Site directed mutagenesis and protein engineering, immobilization techniques.

#### UNIT – III

Microbial screening, selection and strain improvement, bacterial enterotoxins, peptide hormone, interferons. Biofertilizers, biopesticides, enzyme electrodes, enzyme in pulp and paper industry, Bioremediation.

#### UNIT – IV

Role of national and international organization in biotechnology, cooperative efforts, government programs for biotechnology development and applications, patenting biotechnological process and products in different fields, regulation for bio-hazardous products.

#### Lab Course:

1. Bacterial culture and antibiotic selection media. Preparation of competent cells.
2. Isolation of plasmid DNA.
3. Isolation of Lambda phage DNA.
4. Estimation of nucleic acids.
5. Agarose gel electrophoresis and restriction mapping of DNA.
6. Construction of restriction map of plasmid DNA.
7. Cloning in plasmid/phagemid vectors.
8. Preparation of single stranded DNA template.
9. Gene expression in *E. coli* and analysis of gene product
10. PCR

#### Books Recommended:

1. Bruce A White (1997) PCR Cloning Protocols. Hanuman Press Totowa, New Jersey.
2. Bruce Birren, Eric D Green, Sue Klapholz, Trichard M Myers, Horald Riethman, & Jane Roskenus (1999) Genome Analysis: A Lab Manual vol.1, vol.2, vol.3, Cold Spring Harbor Lab. Press.
3. Daniel L Hartl, Elizabeth & Jones W (1998) Genetics: Principles and Analysis. Jones & Bartlett Publishers.
4. Davies JA & Rez WS (1992) Milestones in Biotechnology Classic papers on Genetic Engineering. Butterworth-Heinemann, Boston.
5. Glick Molecular Biotechnology.
6. Glover DM and Hames BD (1995) DNA Cloning: A practical approach, IRL Press, Oxford.
7. Kaufman PB, Wu W, Kim D and Cseke LJ (1995) Molecular and Cellular Methods in Biology and Medicine. C. Press, Florida.
8. Kingsman SM & Kingsman AJ (1998) Genetic Engineering. An Introduction to gene analysis and exploitation in eukaryotes. Blackwell Scientific Publishers, Oxford.
9. Mickloss DA & Freyer GA (1990) DNA Science. A First Course in Recombinant Technology. Cold Spring Laboratory Press, New York
10. Primrose SB (1994) Molecular Biotechnology (2<sup>nd</sup> Edition). Blackwell Scientific Publishers, Oxford.
11. Sambrook, Fritsch EF and Maniatis (2000). Molecular Cloning: A Laboratory Manual. Cold Spring Laboratory Press, New York
12. Sambrook & Russell (2001) Molecular Cloning: A lab Manual (3<sup>rd</sup> Edition). Cold Spring Harbor



Lab Press.

13. Strickberger MW (2000) Genetics (3<sup>rd</sup> Edition), Prentice Hall of India Pvt. Ltd.
14. Walker MR & Rapley R (1997) Route Maps in Gene Technology. Blackwell Scientific Publishers, Oxford.
15. Watson JD, Gilman N, Witkowski, Mark, Zoller . Recombinant DNA , Scientific American Books.
16. John Bulock and Bjorn Kristiansen. Basic Biotechnology Academic Press

**M. Sc. Microbiology**

**FOURTH SEMESTER**

(January 2020 – June 2020)

**PAPER-II: ADVANCED IMMUNOLOGY, DIAGNOSTICS AND PROPHYLAXIS**

Max. Mark 80

Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words.

**UNIT – I**

Generation of diversity in BCR and TCR. Light and heavy chain gene recombination. Recombination Signal sequences. Heavy chain constant region genes. Class switching. Membrane and secreted immunoglobulins. Organization and arrangement of T-cell receptor genes.

**UNIT – II**

Synthesis and production of immunoglobulins. Monoclonal antibody. Designer antibody. Regulation of immune response by antigen, antibody, immune complex, MHC and cytokines. Autoimmunity and autoimmune disorders. Immunological tolerance. Immunity to microbial and parasitic infections. Immunodeficiency diseases.

**UNIT – III**

Principles of antimicrobial action and resistance of antibiotics. Antimicrobial susceptibility testing Anti fungal and anti cancer compounds. Nosocomial infection, common type of hospital infections and their diagnosis and control.  
Immunoprophylaxis: Principles of Vaccination. Immunization practices. Vaccines against important bacterial and parasitic diseases. DNA vaccines; passive prophylactic measures. Viral vaccines and antiviral agents

**UNIT – IV**

Diagnosis of microbial diseases - Collection, transport and preliminary processing of Clinical pathogens. Clinical, microbiological, immunological and molecular diagnosis of microbial diseases. Modern methods of microbial diagnosis.  
Principles of immunodiagnosics. Antigen-antibody based immunodiagnosis and the techniques involved – Enzyme, Radio and Fluorescence Immuno assays, Immunoblotting, Flow cytometry. Effector cell assays, Cytotoxic assays. Isolation of pure antibody. Application of monoclonal antibodies in immunodiagnosics.

**Lab Course:**

- Preparation of Parasite/ microbe Antigen and analysis by PAGE
- Immunizations and Production of Antibody
- Antigen antibody reaction by Double Diffusion, Counter Current and Immunoelectrophoresis, RID and ELISA
- Western Blot Analysis
- Immunodiagnosis using commercial kits
- VDRL and RPR Test.
- Widal test

**Books Recommended:**

Page 16 of 21

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- Prescott and Dunn's. Microbiology. CBS Publishers & Distributors
- Anantnarayan R and Panikar CKJ: Text book of Microbiology, Orient Blackswan Pvt. Ltd.
- Broude AI: Medical Microbiology and Infectious Diseases, WB Saunders Co.
- Chapel and Haeney: Essentials of Clinical Immunology, Blackwell Scientific Publications
- Kubys Immunology: R.A. Goldsby, Thomas J Kindt and Barbara A. Osborne
- Immunology- A short Course: E. Benjamini, R. Coico and G. Sunshine
- Immunology: Roitt, Brostoff and Male
- Forbes BA, Sahm DF and Weissfeld AS: Bailey & Scott's Diagnostic Microbiology, Mosby

### M. Sc. Microbiology

#### FOURTH SEMESTER

(January 2020 – June 2020)

#### Special Paper - PAPER-III (A): FOOD MICROBIOLOGY

Max. Mark 80

Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words.

#### UNIT- I

Microbial flora of fresh food, grains, fruits, vegetables, milk, meat, eggs and fish. Microbiological examination of foods for their infestation by bacteria, fungi & viruses. Chemical preservatives and food additives. Factors influencing microbial growth in food- Extrinsic and intrinsic factors. Food as a substrate for micro-organism.

#### UNIT- II

Canning, processing for heat treatment - D, Z and F values and working out treatment parameters; microbial spoilage of canned foods, detection of spoilage and characterization. Mold and mycotoxin contamination of food, aflatoxins, ochratoxins, trichothenes, zearalenone, ergot mycotoxins. Role of microorganisms in beverages– beer, wine and vinegar fermentation.

#### UNIT- III

The roles of microorganisms in the food industry, positive and negative perspectives. Food-borne infections and intoxications: Bacteria and nonbacterial-with examples of infective and toxic types- *Brucella*, *Bacillus*, *Clostridium*, *Escherichia*, *Salmonella*, *Shigella*, *Staphylococcus*, *Vibrio*, *Yersinia*; nematodes, protozoa, algae, fungi and viruses. Food borne outbreak- laboratory testing procedures; Sources and transmission of bacteria in foods: human, animal, and environmental reservoirs; cross-contamination.

#### UNIT- IV

Prevention Measures-Food sanitation in manufacture and retail trade; Plant sanitation- Employee's Health standards-waste treatment-disposal- quality control. Government Agency and Food Safety Policy: Government Branches (FDA, CDC, USDA and how they work to control food safety), HACCP, Risk Assessment.

#### Lab Course:




1. Isolation and identification of microorganisms from fermented food, fruits, cereal grains and oil seeds.
2. Determination of quality of milk sample by methylene blue reductase test.

#### Books Recommended:

- M.R. Adams and M.O. Moss: Food Microbiology, Royal Society, Cambridge
- William, C. Frazier and Dennis C. Westhoff: Food Microbiology, Tata McGraw Hill
- Banwart GJ: Food Microbiology CBS Publishers & Distributors, New Delhi.
- Hobbs BC and Roberts D: Food Poisoning and Food Hygiene, Edward Arnold, London

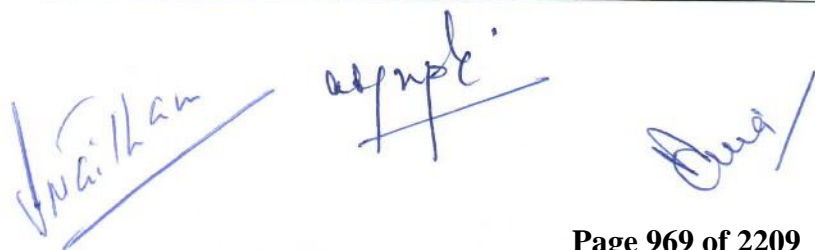
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| <b>M. Sc. Microbiology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>FOURTH SEMESTER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| (January 2020 – June 2020)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b><u>Special Paper - PAPER-III (B): MICROBIAL ECOLOGY</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Max. Mark 80</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>UNIT- I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| History, significance and developments in the field of microbial ecology<br>Contributions of Beijerinck, Winogradsky, Kluver, Van Niel, Martin Alexander, Selman A. Waksman, Environmental chemistry, Atmospheric pollutants, Types of wastes, The Atmosphere, Organization of life, Ecosystems.                                                                                                                                                                                                                                                                                                                               |
| <b>UNIT- II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Microorganisms & their natural habitats<br>A. Terrestrial Environment: Soil characteristics, Soil profile, Soil formation, Soil as a natural habitat of microbes, Soil microflora<br>B. Aquatic Environment: Stratification & Microflora of Freshwater & Marine habitats.<br>Atmosphere: Stratification of the Atmosphere, Aeromicroflora, Dispersal of Microbes<br>D. Animal Environment: Microbes in/on human body (Microbiomics) & animal (ruminants) body.<br>E. Extreme Habitats: Extremophiles: Microbes thriving at high & low temperatures, pH, high hydrostatic & osmotic pressures, salinity, & low nutrient levels. |
| <b>UNIT- III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Succession of microbial communities in the decomposition of plant organic matter<br>Biological Interactions.<br>A. Microbe–Microbe Interactions: Mutualism, Synergism, Commensalism, Competition, Amensalism, Parasitism, Predation, Biocontrol agents.<br>B. Microbe–Plant Interactions: Roots, Aerial Plant surfaces, Biological Nitrogen fixation (symbiotic/nonsymbiotic - biofertilizers)<br>C. Microbe–Animal Interactions: Role of Microbes in Ruminants, Nematophagus fungi, Luminescent bacteria as symbiont.                                                                                                         |
| <b>UNIT- IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Biogeochemical cycles an introduction.<br>Carbon cycle: Microbial degradation of polysaccharide (cellulose, hemicellulose, lignin, chitin)<br>Nitrogen cycle: Ammonification, nitrification, denitrification & nitrate reduction. Nitrate pollution.<br>Phosphorous cycle: Phosphate immobilization and phosphate solubilization.<br>Sulphur Cycle: Microbes involved in sulphur cycle.                                                                                                                                                                                                                                        |
| <b>Lab Course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Analysis of soil - pH, moisture content, water holding capacity, percolation, capillary action<br>Isolation of microbes (bacteria & fungi) from soil (28°C & 45°C ) Isolation of microbes (bacteria & fungi) from rhizosphere and rhizoplane.<br>Detection (qualitative) of the presence of enzymes (dehydrogenase, amylase, urease) in soil.<br>Isolation of Rhizobium from root nodules of legumes.<br>Isolation of Azotobacter/Azospirillum from soil.<br>Isolation of phosphate solubilizers from soil.                                                                                                                    |
| <b>Books Recommended:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• Atlas RM and Bartha R. (2000). Microbial Ecology: Fundamentals &amp; Applications. 4th edition. Benjamin/Cummings Science Publishing, USA.</li> <li>• Atlas RM. (1989). Microbiology: Fundamentals and Applications. 2nd Edition, MacMillan Publishing Company, New York.</li> <li>• Madigan MT, Martinko JM and Parker J. (2009). Brock Biology of Microorganisms. 12th edition. Pearson/ Benjamin Cummings.</li> <li>• Campbell RE. (1983). Microbial Ecology. Blackwell Scientific Publication, Oxford, England.</li> </ul>                                                        |

- Coyne MS. (2001). Soil Microbiology: An Exploratory Approach. Delmar Thomson Learning.
- Lynch JM & Hobbie JE. (1988). Microorganisms in Action: Concepts & Application in Microbial Ecology. Blackwell Scientific Publication, U.K.
- Maier RM, Pepper IL and Gerba CP. (2009). Environmental Microbiology. 2<sup>nd</sup> edition, Academic Press.
- Martin A. (1977). An Introduction to Soil Microbiology. 2<sup>nd</sup> edition. John Wiley & Sons Inc. New York & London.
- Stolp H. (1988). Microbial Ecology: Organisms Habitats Activities. Cambridge University Press, Cambridge, England.
- Subba Rao NS. (1999). Soil Microbiology. 4th edition. Oxford & IBH Publishing Co. New Delhi.

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| <b>M. Sc. Microbiology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>FOURTH SEMESTER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| (January 2020– June 2020)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b><u>Special Paper - PAPER-IV (A): AGRICULTURE MICROBIOLOGY</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Max. Mark 80</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>UNIT- I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Structure and characteristic features of the following biofertilizer organisms: Bacteria: Azospirillum, Azotobacter, Bacillus, Pseudomonas, Rhizobium and Frankia. Cyanobacteria: Anabaena, Nostoc, Fungi: Glomus, Gigaspora, Sclerocystis, Amanita, Laccaria.<br>Biofertilization processes - Decomposition of organic matter and soil fertility and vermicomposting. Mechanism of phosphate solubilization and phosphate mobilization.                                                                                                               |
| <b>UNIT- II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Biofertilizers – biological nitrogen fixation – nitrogenase enzyme – symbiotic nitrogen fixation- (Rhizobium, Frankia) – non symbiotic nitrogen fixation (Azotobacter - Azospirillum), VAM- ecto- endo-ectendo mycorrhizae and their importance in agriculture.                                                                                                                                                                                                                                                                                        |
| <b>UNIT- III</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Major biogeochemical cycles and the organisms: carbon – nitrogen - phosphorous and sulphur. Biopesticides: toxin from <i>Bacillus thuringiensis</i> , <i>Pseudomonas syringae</i> . Biological control - use of Baculovirus, protozoa and fungi.                                                                                                                                                                                                                                                                                                       |
| <b>UNIT- IV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Microbial diseases of crop plants: symptoms, causal organisms and control. Fungal diseases (Late blight of potato, Tikka disease of groundnut, red rot of sugarcane). Bacterial diseases (bacterial blight of rice, citrus canker, Tundu disease of wheat) and<br>Viral diseases (Tobacco mosaic, leaf curl of papaya, yellow vein mosaic of bhindi).                                                                                                                                                                                                  |
| <b>Lab Course:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <ol style="list-style-type: none"> <li>1. Isolation and enumeration of bacteria from different soil type.</li> <li>2. Isolation and enumeration of fungi from different soil type</li> <li>3. Preparation of Winogradsky Column to study the various soil microflora.</li> <li>4. Isolation of Rhizobium from root nodules.</li> <li>5. Isolation of Azotobacter from soil.</li> <li>6. Isolation of Cyanobacteria from paddy field.</li> <li>7. Measurement of pH of soil sample.</li> </ol>                                                          |
| <b>Books Recommended:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |



- Bagyraj and Rangasamy: Agricultural Microbiology

**M. Sc. Microbiology**

**FOURTH SEMESTER**

(January 2020 – June 2020)

**Special Paper - PAPER-IV (B): INDUSTRIAL MICROBIOLOGY**

Max. Mark 80

Each theory paper will have questions divided into four sections, A, B, C & D. Section A will have 20 MCQ of 1 mark each covering whole syllabus. Section B will have 8 very short answer questions, two from each unit, of 2 marks each to be answered in two to three lines. Section C will have 8 questions, two from each unit, of 3 marks each. The question has to be answered in about 75 words. Section D will have 4 questions, one from each unit with internal choice, of 5 marks each. The question has to be answered in about 150 words.

**UNIT- I**

Introduction to industrial microbiology  
Brief history and developments in industrial microbiology  
Fermentation processes  
Solid-state and liquid-state (stationary and submerged) fermentations; Batch, fedbatch and continuous fermentations

**UNIT- II**

Bioreactors/fermenters  
Components of a typical bioreactor, types of bioreactors-Laboratory, pilot- scale and production fermenters; constantly stirred tank fermenter, tower fermenter, fixed bed and fluidized bed bioreactors and air-lift fermenter.

**UNIT- III**

Control parameters, industrially important strains, media ingredients  
Measurement and control of fermentation parameters  
Control and monitoring of different parameters in a bioreactor; pH, temperature, dissolved oxygen, foaming and aeration  
Isolation of industrially important microbial strains  
Primary and secondary screening, strain development, preservation and maintenance of industrial strains  
Media and ingredients for industrial fermentations  
Crude and synthetic media; molasses, corn-steep liquor, sulphite waste liquor, whey and yeast extract.

**UNIT- IV**

Down-stream Processing  
Filtration, centrifugation, cell disruption, solvent extraction, precipitation and ultrafiltration, lyophilization, spray drying

**Lab Course:**

1. Microbial fermentations for the production and estimation (qualitative and quantitative) of:
  - (a) Enzyme: Amylase
  - (b) Amino acid: Glutamic acid
  - (c) Organic acid: Citric acid
  - (d) Alcohol: Ethanol
  - (e) Antibiotic: Penicillin
2. A visit to any educational institute/ industry to see an industrial fermenter, and other downstream processing operations.

**Books Recommended:**

- Casida LE. (1991). Industrial Microbiology. 1st edition. Wiley Eastern Limited.
- Crueger W and Crueger A. (2000). Biotechnology: A textbook of Industrial Microbiology. 2nd edition. Panima Publishing Co. New Delhi.
- Patel AH. (1996). Industrial Microbiology. 1st edition, Macmillan India Limited.

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*Signature 3*



- Stanbury PF, Whitaker A and Hall SJ. (2006). Principles of Fermentation Technology. 2nd edition, Elsevier Science Ltd.

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Pt. Ravishankar Shukla University, Raipur  
(2018-2019)

## Master of Philosophy in Bioscience

The M. Phil. examination shall follow the following patterns:

### Allotment of Marks

|                    | Theory/ Lab Course |                                                                                                         | Marks      |
|--------------------|--------------------|---------------------------------------------------------------------------------------------------------|------------|
| 1.                 | Theory-I           | Research Methodology, Advanced Tools & Techniques, Quantitative Data Analyses and Computer Fundamentals | 100        |
| 2.                 | Theory-II          | Modern Biology                                                                                          | 100        |
| 3.                 | Theory-III         |                                                                                                         | 100        |
|                    | <b>OR</b>          |                                                                                                         |            |
|                    | Lab Course-I       |                                                                                                         | 100        |
| <b>Total Marks</b> |                    |                                                                                                         | <b>300</b> |
| 4.                 | Seminar            | Based on theory                                                                                         | 50         |
| 5.                 | Dissertation       | Seminar based on dissertation                                                                           | 50         |
|                    |                    | Script Writing                                                                                          | 75         |
|                    |                    | Viva-voce                                                                                               | 25         |
| <b>Total Marks</b> |                    |                                                                                                         | <b>200</b> |
| <b>Grand Total</b> |                    |                                                                                                         | <b>500</b> |

- (b) The distribution of 100 marks of practical is as follows:
- |                  |    |
|------------------|----|
| Practical        | 60 |
| Viva-voce        | 20 |
| Practical record | 20 |
- (c) The third theory course shall be applicable to the subjects that do not have lab courses.
- (d) The assessment of the Seminars shall be done by the internal examiners. The assessment of the practical records, carrying 20 marks shall be done at the time of the annual examination jointly by the internal and external examiners.
- (e) The result will be computed by combining the marks of the various courses and the dissertation.

*Sanjivhan*  
*10.9.18*

Theory Paper I

Research Methodology, Advanced Tools & Techniques, Quantitative Data Analyses and Computer Fundamentals

**Unit-I Research Methodology**

Types of data, Data collection, Methods and tools of data collection  
Introduction to research methodology: Scope  
Research problem: Identification, Selection, Formulation of research objectives  
Research design: Components, Importance, Typology  
Research ethics, Institutional ethics committee for human and animal research  
Plagiarism - Pitfall  
Patents and IPR: Patent laws, process of patenting a research finding, Copy right, Cyber laws

**Unit-II Advanced Tools & Techniques**

Microscopic techniques –Electron microscopy and Confocal microscopy  
Principle, protocol and application of Chromatography – GLC & HPLC, Electrophoresis and its application  
PCR, Real time PCR, DNA microarray, DNA sequencing  
Protein microarray and Protein sequencing

**Unit-III Quantitative Data Analyses**

Hypothesis testing  
Normal and Binomial distributions and their property  
Tests of significance: Student *t*-test, *F*-test, *Chi-square* test  
Correlation and Regression  
ANOVA – One-way and Two-way, Multiple-range test

**Unit-IV Computer Fundamentals**

Introduction to spreadsheet application, features and functions,  
Using formulas and functions, Data storing, Generating charts/ graph and other features. Tools used may be Microsoft Excel or any other comparable/similar tool.  
Introduction to presentation tool, features and functions,  
Creating presentation, Customizing presentation, Showing presentation. Tools used may be Microsoft Power Point or any other comparable/similar tool.  
ICT: meaning, advantages and uses; Basics of internet, e-mailing, Search engine, like Google, Yahoo, MSN, Entrez including Pub med, Literature search techniques. Web of Science, Citation Index: Science Citation Index (SCI), h-index, i-10-index. Journal Impact Factor (JIF)  
Features for Statistical data analysis using computers and software, Microsoft Excel Data Analysis Tool Pak, SPSS

**Lab Course:**

1. Construction of frequency distribution curves
2. Effect of size of class interval on the pattern of frequency distribution
3. Construction of cumulative frequency distributions
4. Computation of measures of central tendency and dispersion based upon grouped data and ungrouped data

*J. Naikhan*  
*10.9.18*

5. Hypothesis testing: Exercises on *t*-test, *F*-test &  $\chi^2$ -test
6. Computation of correlation coefficient and regression constants
7. Data analyses using MS Excel ToolPak: Descriptive statistics, ANOVA, Correlation and Regression, *t*-test
8. Computation of correlation coefficient and regression constants using SPSS
9. Internet application with special reference to literature search
10. Performance of SDS-PAGE analysis
11. Study of isoenzyme pattern
12. Performance of RAPD analysis

**Recommended Books:**

|                                   |                                                                             |
|-----------------------------------|-----------------------------------------------------------------------------|
| Campbell RC                       | Statistics for biologists                                                   |
| Zar JH                            | Biostatistical Analysis                                                     |
| Wardlaw AC                        | Practical Statistics for Experimental Biologists                            |
| Snedecor GW & Cochran WG          | Statistical Methods                                                         |
| Sokal RR & Rohlf FJ               | Introduction to Biostatistics                                               |
| Sumner M                          | Computers: Concepts & Uses                                                  |
| White R                           | How Computers Work                                                          |
| Cassel P <i>et al.</i>            | Inside Microsoft Office Professional                                        |
| Coleman P and Dyson P             | Mastering Internets                                                         |
| Gralla P                          | How the Internet Works                                                      |
| Shelly GB, Vermaat ME, Cashman TJ | Microsoft® 2007: Introductory Concepts and Techniques                       |
| Habraken J                        | Microsoft® Office 2003 All in One                                           |
|                                   | Microsoft® Office 2010 In Depth                                             |
| Gilmore B                         | Plagiarism: Why it happens, How to prevent it?                              |
| Buranen L and Roy AM              | Perspectives on Plagiarism and Intellectual Property in a Post-Modern World |
| Kumar Anupa P                     | Cyber Law                                                                   |
| Sood V                            | Cyber Law Simplified                                                        |
| Campbell RC                       | Statistics for biologists                                                   |
| Zar JH                            | Biostatistical Analysis                                                     |
| Wardlaw AC                        | Practical Statistics for Experimental Biologists                            |
| CR Kothari                        | Research Methodology: Methods & techniques, 2008                            |
| G Daigaku <i>et al.</i>           | Molecular mechanism of biosignal transduction                               |

**Theory Paper II  
Modern Biology**

**Unit-I Biosignaling**

Molecular mechanism of signal transduction, Gated ion channels  
Receptors enzymes; Insulin receptor, Guanyl cyclase  
G- protein- coupled receptor and second messengers  
Phosphorylation as a regulatory mechanism  
Regulation of cell cycle by protein kinase  
Quorum Sensing

**Unit-II Immunotechnology**

Organization of Immunoglobulin genes: Light & Heavy chain, variable & constant region.  
Generation of antibody diversity: Light and heavy chain gene recombination, Heavy chain constant region genes, Class switching.  
Membranous and secreted immunoglobulin.

*Maithan*  
*10-9-18*

Synthesis and production of immunoglobulin: Monoclonal antibody, Designer antibody.

Antigens and antigenicity. Antigen-antibody interaction.

Immunodiagnosics: Precipitation reactions, Haemagglutination,

Immunofluorescence, Radio and Enzyme immuno assays, Immunoblotting.

Immunoprophylaxis: vaccines and vaccination.

**Unit-III Plant Tissue Culture**

Laboratory requirement and general techniques of plant tissue culture

Tissue culture media

Cell culture

Cellular totipotency, morphogenesis.

Somatic embryogenesis

Haploid production.

Protoplast isolation, culture and fusion.

Clonal propagation

**Unit-IV Seed Technology**

Seed storage: biochemical and molecular basis of viability and vigour tests

Testing Techniques for Seed storage behaviour: orthodox and non-orthodox

Seed age & ageing markers: Telomeres and telomerase. Seed priming technology.

Cryogenic storage biotechnology

Seed quality improvement: Seed Protein, Carbohydrate and Oil quality.

Seed Germination: Biochemical and molecular basis of germination methods, germination specific markers

Seed dormancy: Biochemical & molecular markers and hormonal control.

Seed testing: GM crops, Plant molecular farming.

**Lab Course (8-10 exercises out of the list given below):**

1. Determination of percent and rate of germination of seed
2. Determination of seed viability
3. Determination of level of electrolytic leakage in fresh and aged Moong seed
4. Determination of the rate of lipid peroxidation in fresh and aged seeds
5. Determination of Ag-Ab reaction through double diffusion technique
6. Determination of Ag-Ab reaction through counter current immunoelectrophoresis (CIEP)
7. Demonstration of Ag-Ab reaction through immunoelectrophoresis technique
8. Demonstration of the technique of radial immunodiffusion (RID)
9. Performance of sandwich DOT ELISA test for antigen
10. Study of Haemagglutination with the help of commercial kit
11. Preparation of Murashige and Skoog (MS) media
12. Performance of shoot-bud culture by explants in MS media
13. Multiplication of shoot induction in MS solid media
14. Multiplication of shoot induction in MS liquid media
15. Study of somatic embryogenesis using zygotic embryo of a given plant

**Recommended Books:**

MK Razdan

Introduction to Plant Tissue Culture, 2<sup>nd</sup> Edition, Oxford & IBH Publishing Co. Pvt Ltd, 2010

IK Vasil

Plant Cell and Tissue Culture; Springer Publication, 1994

SS Bhojwani and MK Razdan

Plant Tissue Culture; Elsevier

TJ Fu, G Singh and WR Curtis

Plant Cell and Tissue Culture for the production of Food Ingredients. Kluwer Academic/ Plenum Press, 1999

*Nailhan*  
*10.9.18*

|                           |                                                                                                          |
|---------------------------|----------------------------------------------------------------------------------------------------------|
| MK Razdan                 | Introduction to Plant Tissue Culture, 2 <sup>nd</sup> Edition, Oxford & IBH Publishing Co. Pvt Ltd. 2010 |
| Leigninzer                | Biochemistry                                                                                             |
| SS Bhojwani and MK Razdan | Plant Tissue Culture: Theory and Practice (1996)                                                         |
| JD Bewley & M Black       | Physiology & Biochemistry of Seeds, Vol. I & II                                                          |
| JD Bewley & M Black       | Seeds : Physiology of Development & Germination                                                          |
| Black <i>et al.</i>       | Desiccation and Survival of Plants : Dying without Drying                                                |
| PK Agrawal & M Dadlani    | Techniques in Seed Science & Technology                                                                  |
| FAO Report 113            | Ex-situ storage of seeds, pollen & <i>in vitro</i> cultures                                              |
| Copeland & McDonald       | Seed Science & Technology                                                                                |
| RL Agrawal                | Seed Technology                                                                                          |
| J Kigel & G Galili        | Seed Development & Germination                                                                           |
| RA Goldsby <i>et al.</i>  | Kuby's Immunology                                                                                        |
| E Benjamini <i>et al.</i> | Immunology-A short Course                                                                                |
| Roitt, Brostoff and Male  | Immunology                                                                                               |
| William Paul              | Fundamentals of Immunology                                                                               |
| Stewart Snell             | Immunology, Immunopathology and Immunity                                                                 |
| Elgert                    | Understanding Immune System                                                                              |
| R Panneerselvam           | Research Methodology                                                                                     |
| CR Kothari                | Research Methodology: Methods & techniques, 2008                                                         |
| G Daigaku <i>et al.</i>   | Molecular mechanism of biosignal transduction                                                            |
| M Kasai                   | Biosignal transduction mechanism                                                                         |

*Dr. Anil Kumar*  
*10.9.18*

**Pt. Ravishankar Shukla University, Raipur (Chhattisgarh)**  
**School of Studies in Life science (Syllabus 2018-2020)**

Choice Based Syllabus for Second Semester (January-June)

Elective Paper: Plant Cosmetics

Credit: 3; Maximum marks 80+20

Flowering plants: Commercial Plant bioregulators for rooting, flowering, fruiting and seed setting. Plant cosmetics for; colour, texture, brightness and longevity of flowers and leaves, Plant cosmetics in enhancing the quantity and quality of biomolecules of medicinal plants; tissue and root culture.

Non-flowering plants: Plant cosmetics for; bushy nature, bright and colour leaves of crotons and other plants. Plant cosmetics for leafy plants, aromatic plants, indoor plants and lawn grass.

Plant bio regulators in plant based technology for; Cut, vase flowers, orchid cut-flower industry and bonsai plants. Post-harvest management and marketing issues of flowers, fruits and seeds.

Plant cosmetics in rose flower industry; positive response in stem length, pedicel length, longevity of buds and flower head, compactness and fresh weight.

**Books Recommended:**

|                                    |                                              |
|------------------------------------|----------------------------------------------|
| Fosket DF                          | Plant Growth & Development                   |
| Leopold AC & Kriedemann PE         | Plant Growth & Development                   |
| Moore TC                           | Biochemistry & Physiology of Hormones        |
| L Taiz & E Zeiger                  | Plant Physiology                             |
| BB Buchanan, W Gruissem & RL Jones | Biochemistry and Molecular Biology of Plants |
| MB Wilkins                         | Advanced Plant Physiology                    |
| JA Hopkins                         | Introduction to Plant Physiology             |
| FB Salisbury & CW Ross             | Plant Physiology                             |
| Hans-Walter Heldt                  | Plant biochemistry & Molecular Biology       |

Choice Based Syllabus for Second Semester (January-June)

Elective Paper: Economic Zoology

Credit: 3; Maximum marks 80+20

**Economic Entomology:**

Sericulture: silk moth and worm, mulberry silk worm, economic importance of silk. Apiculture: honey bees and its social organization, methods of bee keeping, products of bee keeping and its economic importance. Lac culture: lac insect, cultivation of lac, lac composition, economic importance of lac. Insect Pest Management: Biological, hormonal and pheromonal control.

**Aquaculture:**

Fish culture: types of fish culture in India, methods of fishing, by-product of fishing industry. Prawn culture: culture of fresh water prawn, methods of prawn fishing, preservation and processing of prawn. Pearl culture: pearl formation, pearl industry and artificial insertion of nucleus, harvesting and composition of pearl.

**Poultry:**

Quail (Bater) farming: general characteristics of quail, egg production and hatching, brooding and rearing, management of adult quail. Quail housing equipments, nutrition, products technology (egg, meat and their products).

**Books Recommended**

1. Shukla & Upadhyaya: Economic Zoology, Rastogi Publication, Meerut
2. Panda et al: Quail production technology, Central avian research institute, Izatnagar
3. Venketaraman: Economic Zoology, Sudarsana Publication
4. Srivastava: A Text Book of Applied Entomology, Vol. II & III, Kalyani Publication



**School of Life Sciences, PRSU, Raipur**

Choice Based Syllabus for Third Semester (July- December)

Elective Paper: Vector Borne Diseases

Credit: 3; Maximum marks 80+20

**Vectors**

Definition; importance of studying vectors. A brief introduction of the various types of vectors including Arthropods and Molluscs and their ecological aspects related to disease transmission.

**Vector borne diseases**

An overview; Brief introduction of important vector borne diseases including Malaria, Chickungunia, Japanese encephalitis, Trypanosomiasis, Leishmaniasis, Lymphatic filariasis, Oncocerciasis, Tick borne diseases, Schistosomiasis.

**Prevention and control of vectors**

Vectors and their control: Chemical and biological methods, environmental management, community and personal prophylaxis.

Meeting challenges and role of public health stake holders in controlling vector borne diseases

**Books Recommended**

1. Chatterjee KD: Medical Parasitology
2. Park and Park: Preventive and Social Medicine
3. JC Cheng: A Text Book of Human Parasitology
4. Anantnarayana and Panicker: A Text Book of Medical Microbiology

**Choice Based Syllabus for Third Semester (July-December)**

**Elective Paper: Rhythms in Life**

**Credit: 3; Maximum marks 80+20**

**Origin and evolution of rhythms; Types of rhythms and how to study rhythms?**

Historical developments in chronobiology. Different types of geophysical and biological cycles with examples of circadian, ultradian and infradian rhythms. Autorhythmometry

**Rhythms are ubiquitous from microbe to man**

Characteristics of circadian rhythm: Free-run, Temperature and nutrition compensation, and Entrainment. Zeitgeber Time (ZT) and Circadian Time (CT). Example of circadian rhythms in plants, cyanobacteria, fungi, *Drosophila*, fish, mammals, and humans.

**Application of principles of chronobiology to augment human welfare**

Application of principles of Chronobiology in management of diseases with specific examples based on cancer and sleep disorders; and Shift work and Jet Lag

**Recommended Books**

- |                                      |                                                                                                                          |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| S Binkley                            | Biological Clocks – Your Owner’s Manual                                                                                  |
| MK Chandrashekar                     | Time in the Living World                                                                                                 |
| R Refinetti                          | Circadian Physiology                                                                                                     |
| JC Dunlap, JJ Loros & PJ DeCoursey   | Chronobiology: Biological timekeeping                                                                                    |
| WG van Doorn and U van Meeteren      | Flower opening and closure: a review                                                                                     |
| AK Pati                              | Chronobiology: The dimension of time in biology and medicine; PINSAs (Biological Sciences), PART B 67 (6), 323-372, 2001 |
| AK Pati, A Chandrawanshi, A Reinberg | Shift work: Consequences and management, Current Science, 81 (1), 32-52, 2001                                            |
| AK Pati, A Parganiha                 | Shift work: Circadian rhythm disruption and beyond PINSAs (Biological Sciences), PART B 71 (5/6), 229, 2005              |
| AK Pati                              | Chronobiology: Implications of circadian rhythms, National Academy Science letters 27 (7-8), 233-248, 2004.              |
| JD Palmer                            | The living clock                                                                                                         |

| <b>Syllabus for Ph.D. Course Work in Biochemistry (2018-19)</b>                                                                                                                                                              |                                                                                                                                                                                                                  |                 |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|
| <b>One Semester</b>                                                                                                                                                                                                          |                                                                                                                                                                                                                  |                 |              |
| There are Two papers; each with 100 maximum marks. The candidate must obtain 50% or more marks in each paper independently to qualify in the course work. The answer papers will be assessed independently by two examiners. |                                                                                                                                                                                                                  |                 |              |
| <b>Paper-I: Research Methodology, Advanced Tools &amp; Techniques, Quantitative Data Analyses and Computer Fundamentals</b>                                                                                                  |                                                                                                                                                                                                                  |                 |              |
|                                                                                                                                                                                                                              |                                                                                                                                                                                                                  | <b>Lectures</b> | <b>Marks</b> |
| <b>A</b>                                                                                                                                                                                                                     | <b>Research Methodology:</b>                                                                                                                                                                                     | <b>20</b>       | <b>25</b>    |
|                                                                                                                                                                                                                              | Introduction and Scope                                                                                                                                                                                           | 2L              |              |
|                                                                                                                                                                                                                              | Research problem: Identification, Selection, Formulation of research objectives                                                                                                                                  |                 |              |
|                                                                                                                                                                                                                              | Research design: Components, Importance, Types                                                                                                                                                                   | 3L              |              |
|                                                                                                                                                                                                                              | Types of data, Data collection - Methods and Tools                                                                                                                                                               | 2L              |              |
|                                                                                                                                                                                                                              | Research ethics, Institutional ethics committee                                                                                                                                                                  | 2L              |              |
|                                                                                                                                                                                                                              | Plagiarism - Pitfall                                                                                                                                                                                             | 2L              |              |
|                                                                                                                                                                                                                              | Patents and IPR: Patent laws, process of patenting a research finding, Copy right, Cyber laws                                                                                                                    | 3L              |              |
|                                                                                                                                                                                                                              | Bibliometrics: Measurement of academic output- Citation Index: Science Citation Index (SCI), h-index, i-10-index. Journal Impact Factor (JIF); Style of Bibliography, Project, research paper and review writing | 6L              |              |
| <b>B</b>                                                                                                                                                                                                                     | <b>Advanced Tools &amp; Techniques</b>                                                                                                                                                                           | <b>20</b>       | <b>25</b>    |
|                                                                                                                                                                                                                              | Microscopic techniques –Electron microscopy and Confocal microscopy                                                                                                                                              | 5L              |              |
|                                                                                                                                                                                                                              | Principle, protocol and application of Chromatography – GLC & HPLC, Electrophoresis and its application                                                                                                          | 5L              |              |
|                                                                                                                                                                                                                              | PCR, Real time PCR, DNA microarray, DNA sequencing                                                                                                                                                               | 5L              |              |
|                                                                                                                                                                                                                              | Protein microarray and Protein sequencing                                                                                                                                                                        | 5L              |              |
| <b>C</b>                                                                                                                                                                                                                     | <b>Quantitative Data Analyses</b>                                                                                                                                                                                | <b>20</b>       | <b>25</b>    |
|                                                                                                                                                                                                                              | Hypothesis testing                                                                                                                                                                                               | 2L              |              |
|                                                                                                                                                                                                                              | Normal and Binomial distributions and their property                                                                                                                                                             | 3L              |              |
|                                                                                                                                                                                                                              | Tests of significance: Student <i>t</i> -test, <i>F</i> -test, <i>Chi-square</i> test                                                                                                                            | 5L              |              |
|                                                                                                                                                                                                                              | Correlation and Regression                                                                                                                                                                                       | 4L              |              |
|                                                                                                                                                                                                                              | ANOVA – One-way and Two-way, Multiple-range test                                                                                                                                                                 | 6L              |              |
| <b>D</b>                                                                                                                                                                                                                     | <b>Computer Fundamentals</b>                                                                                                                                                                                     | <b>20</b>       | <b>25</b>    |
|                                                                                                                                                                                                                              | Introduction to MS-Office software: MS-Word (Track change)                                                                                                                                                       | 2L              |              |
|                                                                                                                                                                                                                              | MS-Excel                                                                                                                                                                                                         | 2L              |              |
|                                                                                                                                                                                                                              | MS-Power Point                                                                                                                                                                                                   | 2L              |              |
|                                                                                                                                                                                                                              | MS-Access                                                                                                                                                                                                        | 2L              |              |
|                                                                                                                                                                                                                              | Literature search technique using SCOPUS, Google Scholar, PUBMED, Web of Science                                                                                                                                 | 6L              |              |
|                                                                                                                                                                                                                              | Features for Statistical data analysis using computers and software, Microsoft Excel Data Analysis ToolPak, SPSS                                                                                                 | 6L              |              |

|                                                     |                                                                                            |  |            |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------|--|------------|
| <b>Paper-II: Review of Literature &amp; Seminar</b> |                                                                                            |  | <b>100</b> |
| <b>A</b>                                            | Review of Literature – Writing review of literature in the area of the proposed Ph.D. work |  | 50.0       |
| <b>B</b>                                            | Seminar – Based on the review of literature                                                |  | 50.0       |

**Recommended Books:**

|                                   |                                                                             |
|-----------------------------------|-----------------------------------------------------------------------------|
| AI Vogel                          | Analytical chemistry                                                        |
| BK Sharma                         | Instrumental methods of analysis                                            |
| Buranen L and Roy AM              | Perspectives on Plagiarism and Intellectual Property in a Post-Modern World |
| Campbell RC                       | Statistics for biologists                                                   |
| Cassel P <i>et al.</i>            | Inside Microsoft Office Professional                                        |
| Chatwal and Chatwal               | Instrumentation                                                             |
| Coleman P and Dyson P             | Mastering Internets                                                         |
| CR Kothari                        | Research Methodology: Methods & techniques, 2008                            |
| Gilmore B                         | Plagiarism: Why it happens, How to prevent it?                              |
| Gralla P                          | How the Internet Works                                                      |
| Habraken J                        | Microsoft® Office 2003 All in One, Microsoft® Office 2010 In Depth          |
| Kumar Anupa P                     | Cyber Law                                                                   |
| R Panneerselvam                   | Research Methodology                                                        |
| Shelly GB, Vermaat ME, Cashman TJ | Microsoft® 2007: Introductory Concepts and Techniques                       |
| Snedecor GW & Cochran WG          | Statistical Methods                                                         |
| Sokal RR & Rohlf FJ               | Introduction to Biostatistics                                               |
| Sood V                            | Cyber Law Simplified                                                        |
| Sumner M                          | Computers: Concepts & Uses                                                  |
| Upadhyaya and Upadhyaya           | Instrumentation                                                             |
| Wardlaw AC                        | Practical Statistics for Experimental Biologists                            |
| White R                           | How Computers Work                                                          |
| Zar JH                            | Biostatistical Analysis                                                     |

| <b>Syllabus for Ph.D. Course Work in Bioscience (2018-19)</b>                                                                                                                                                                |                                                                                                                                                                                                                  |                 |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|
| <b>One Semester</b>                                                                                                                                                                                                          |                                                                                                                                                                                                                  |                 |              |
| There are Two papers; each with 100 maximum marks. The candidate must obtain 50% or more marks in each paper independently to qualify in the course work. The answer papers will be assessed independently by two examiners. |                                                                                                                                                                                                                  |                 |              |
| <b>Paper-I: Research Methodology, Advanced Tools &amp; Techniques, Quantitative Data Analyses and Computer Fundamentals</b>                                                                                                  |                                                                                                                                                                                                                  |                 |              |
|                                                                                                                                                                                                                              |                                                                                                                                                                                                                  | <b>Lectures</b> | <b>Marks</b> |
| <b>A</b>                                                                                                                                                                                                                     | <b>Research Methodology:</b>                                                                                                                                                                                     | <b>20</b>       | <b>25</b>    |
|                                                                                                                                                                                                                              | Introduction and Scope                                                                                                                                                                                           | 2L              |              |
|                                                                                                                                                                                                                              | Research problem: Identification, Selection, Formulation of research objectives                                                                                                                                  |                 |              |
|                                                                                                                                                                                                                              | Research design: Components, Importance, Types                                                                                                                                                                   | 3L              |              |
|                                                                                                                                                                                                                              | Types of data, Data collection - Methods and Tools                                                                                                                                                               | 2L              |              |
|                                                                                                                                                                                                                              | Research ethics, Institutional ethics committee                                                                                                                                                                  | 2L              |              |
|                                                                                                                                                                                                                              | Plagiarism - Pitfall                                                                                                                                                                                             | 2L              |              |
|                                                                                                                                                                                                                              | Patents and IPR: Patent laws, process of patenting a research finding, Copy right, Cyber laws                                                                                                                    | 3L              |              |
|                                                                                                                                                                                                                              | Bibliometrics: Measurement of academic output- Citation Index: Science Citation Index (SCI), h-index, i-10-index. Journal Impact Factor (JIF); Style of Bibliography, Project, research paper and review writing | 6L              |              |
| <b>B</b>                                                                                                                                                                                                                     | <b>Advanced Tools &amp; Techniques</b>                                                                                                                                                                           | <b>20</b>       | <b>25</b>    |
|                                                                                                                                                                                                                              | Microscopic techniques –Electron microscopy and Confocal microscopy                                                                                                                                              | 5L              |              |
|                                                                                                                                                                                                                              | Principle, protocol and application of Chromatography – GLC & HPLC, Electrophoresis and its application                                                                                                          | 5L              |              |
|                                                                                                                                                                                                                              | PCR, Real time PCR, DNA microarray, DNA sequencing                                                                                                                                                               | 5L              |              |
|                                                                                                                                                                                                                              | Protein microarray and Protein sequencing                                                                                                                                                                        | 5L              |              |
| <b>C</b>                                                                                                                                                                                                                     | <b>Quantitative Data Analyses</b>                                                                                                                                                                                | <b>20</b>       | <b>25</b>    |
|                                                                                                                                                                                                                              | Hypothesis testing                                                                                                                                                                                               | 2L              |              |
|                                                                                                                                                                                                                              | Normal and Binomial distributions and their property                                                                                                                                                             | 3L              |              |
|                                                                                                                                                                                                                              | Tests of significance: Student <i>t</i> -test, <i>F</i> -test, <i>Chi-square</i> test                                                                                                                            | 5L              |              |
|                                                                                                                                                                                                                              | Correlation and Regression                                                                                                                                                                                       | 4L              |              |
|                                                                                                                                                                                                                              | ANOVA – One-way and Two-way, Multiple-range test                                                                                                                                                                 | 6L              |              |
| <b>D</b>                                                                                                                                                                                                                     | <b>Computer Fundamentals</b>                                                                                                                                                                                     | <b>20</b>       | <b>25</b>    |
|                                                                                                                                                                                                                              | Introduction to MS-Office software: MS-Word (Track change)                                                                                                                                                       | 2L              |              |
|                                                                                                                                                                                                                              | MS-Excel                                                                                                                                                                                                         | 2L              |              |
|                                                                                                                                                                                                                              | MS-Power Point                                                                                                                                                                                                   | 2L              |              |
|                                                                                                                                                                                                                              | MS-Access                                                                                                                                                                                                        | 2L              |              |
|                                                                                                                                                                                                                              | Literature search technique using SCOPUS, Google Scholar, PUBMED, Web of Science                                                                                                                                 | 6L              |              |
|                                                                                                                                                                                                                              | Features for Statistical data analysis using computers and software, Microsoft Excel Data Analysis ToolPak, SPSS                                                                                                 | 6L              |              |

|                                                     |                                                                                            |  |            |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------|--|------------|
| <b>Paper-II: Review of Literature &amp; Seminar</b> |                                                                                            |  | <b>100</b> |
| <b>A</b>                                            | Review of Literature – Writing review of literature in the area of the proposed Ph.D. work |  | 50.0       |
| <b>B</b>                                            | Seminar – Based on the review of literature                                                |  | 50.0       |

**Recommended Books:**

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| BK Sharma                         | Instrumental methods of analysis                                            |
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| Snedecor GW & Cochran WG          | Statistical Methods                                                         |
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| Upadhyaya and Upadhyaya           | Instrumentation                                                             |
| Wardlaw AC                        | Practical Statistics for Experimental Biologists                            |
| White R                           | How Computers Work                                                          |
| Zar JH                            | Biostatistical Analysis                                                     |

| <b>Syllabus for Ph.D. Course Work in Microbiology (2018-19)</b>                                                                                                                                                              |                                                                                                                                                                                                                  |                 |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|
| <b>One Semester</b>                                                                                                                                                                                                          |                                                                                                                                                                                                                  |                 |              |
| There are Two papers; each with 100 maximum marks. The candidate must obtain 50% or more marks in each paper independently to qualify in the course work. The answer papers will be assessed independently by two examiners. |                                                                                                                                                                                                                  |                 |              |
| <b>Paper-I: Research Methodology, Advanced Tools &amp; Techniques, Quantitative Data Analyses and Computer Fundamentals</b>                                                                                                  |                                                                                                                                                                                                                  |                 |              |
|                                                                                                                                                                                                                              |                                                                                                                                                                                                                  | <b>Lectures</b> | <b>Marks</b> |
| <b>A</b>                                                                                                                                                                                                                     | <b>Research Methodology:</b>                                                                                                                                                                                     | <b>20</b>       | <b>25</b>    |
|                                                                                                                                                                                                                              | Introduction and Scope                                                                                                                                                                                           | 2L              |              |
|                                                                                                                                                                                                                              | Research problem: Identification, Selection, Formulation of research objectives                                                                                                                                  |                 |              |
|                                                                                                                                                                                                                              | Research design: Components, Importance, Types                                                                                                                                                                   | 3L              |              |
|                                                                                                                                                                                                                              | Types of data, Data collection - Methods and Tools                                                                                                                                                               | 2L              |              |
|                                                                                                                                                                                                                              | Research ethics, Institutional ethics committee                                                                                                                                                                  | 2L              |              |
|                                                                                                                                                                                                                              | Plagiarism - Pitfall                                                                                                                                                                                             | 2L              |              |
|                                                                                                                                                                                                                              | Patents and IPR: Patent laws, process of patenting a research finding, Copy right, Cyber laws                                                                                                                    | 3L              |              |
|                                                                                                                                                                                                                              | Bibliometrics: Measurement of academic output- Citation Index: Science Citation Index (SCI), h-index, i-10-index. Journal Impact Factor (JIF); Style of Bibliography, Project, research paper and review writing | 6L              |              |
| <b>B</b>                                                                                                                                                                                                                     | <b>Advanced Tools &amp; Techniques</b>                                                                                                                                                                           | <b>20</b>       | <b>25</b>    |
|                                                                                                                                                                                                                              | Microscopic techniques –Electron microscopy and Confocal microscopy                                                                                                                                              | 5L              |              |
|                                                                                                                                                                                                                              | Principle, protocol and application of Chromatography – GLC & HPLC, Electrophoresis and its application                                                                                                          | 5L              |              |
|                                                                                                                                                                                                                              | PCR, Real time PCR, DNA microarray, DNA sequencing                                                                                                                                                               | 5L              |              |
|                                                                                                                                                                                                                              | Protein microarray and Protein sequencing                                                                                                                                                                        | 5L              |              |
| <b>C</b>                                                                                                                                                                                                                     | <b>Quantitative Data Analyses</b>                                                                                                                                                                                | <b>20</b>       | <b>25</b>    |
|                                                                                                                                                                                                                              | Hypothesis testing                                                                                                                                                                                               | 2L              |              |
|                                                                                                                                                                                                                              | Normal and Binomial distributions and their property                                                                                                                                                             | 3L              |              |
|                                                                                                                                                                                                                              | Tests of significance: Student <i>t</i> -test, <i>F</i> -test, <i>Chi-square</i> test                                                                                                                            | 5L              |              |
|                                                                                                                                                                                                                              | Correlation and Regression                                                                                                                                                                                       | 4L              |              |
|                                                                                                                                                                                                                              | ANOVA – One-way and Two-way, Multiple-range test                                                                                                                                                                 | 6L              |              |
| <b>D</b>                                                                                                                                                                                                                     | <b>Computer Fundamentals</b>                                                                                                                                                                                     | <b>20</b>       | <b>25</b>    |
|                                                                                                                                                                                                                              | Introduction to MS-Office software: MS-Word (Track change)                                                                                                                                                       | 2L              |              |
|                                                                                                                                                                                                                              | MS-Excel                                                                                                                                                                                                         | 2L              |              |
|                                                                                                                                                                                                                              | MS-Power Point                                                                                                                                                                                                   | 2L              |              |
|                                                                                                                                                                                                                              | MS-Access                                                                                                                                                                                                        | 2L              |              |
|                                                                                                                                                                                                                              | Literature search technique using SCOPUS, Google Scholar, PUBMED, Web of Science                                                                                                                                 | 6L              |              |
|                                                                                                                                                                                                                              | Features for Statistical data analysis using computers and software, Microsoft Excel Data Analysis ToolPak, SPSS                                                                                                 | 6L              |              |

|                                                     |                                                                                            |  |            |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------|--|------------|
| <b>Paper-II: Review of Literature &amp; Seminar</b> |                                                                                            |  | <b>100</b> |
| <b>A</b>                                            | Review of Literature – Writing review of literature in the area of the proposed Ph.D. work |  | 50.0       |
| <b>B</b>                                            | Seminar – Based on the review of literature                                                |  | 50.0       |

**Recommended Books:**

|                                   |                                                                             |
|-----------------------------------|-----------------------------------------------------------------------------|
| Al Vogel                          | Analytical chemistry                                                        |
| BK Sharma                         | Instrumental methods of analysis                                            |
| Buranen L and Roy AM              | Perspectives on Plagiarism and Intellectual Property in a Post-Modern World |
| Campbell RC                       | Statistics for biologists                                                   |
| Cassel P <i>et al.</i>            | Inside Microsoft Office Professional                                        |
| Chatwal and Chatwal               | Instrumentation                                                             |
| Coleman P and Dyson P             | Mastering Internets                                                         |
| CR Kothari                        | Research Methodology: Methods & techniques, 2008                            |
| Gilmore B                         | Plagiarism: Why it happens, How to prevent it?                              |
| Gralla P                          | How the Internet Works                                                      |
| Habraken J                        | Microsoft® Office 2003 All in One, Microsoft® Office 2010 In Depth          |
| Kumar Anupa P                     | Cyber Law                                                                   |
| R Panneerselvam                   | Research Methodology                                                        |
| Shelly GB, Vermaat ME, Cashman TJ | Microsoft® 2007: Introductory Concepts and Techniques                       |
| Snedecor GW & Cochran WG          | Statistical Methods                                                         |
| Sokal RR & Rohlf FJ               | Introduction to Biostatistics                                               |
| Sood V                            | Cyber Law Simplified                                                        |
| Sumner M                          | Computers: Concepts & Uses                                                  |
| Upadhyaya and Upadhyaya           | Instrumentation                                                             |
| Wardlaw AC                        | Practical Statistics for Experimental Biologists                            |
| White R                           | How Computers Work                                                          |
| Zar JH                            | Biostatistical Analysis                                                     |



| <b>Syllabus for Ph.D. Course Work in Zoology (2017-18)</b>                                                                                                                                                                   |                                                                                                                                                                                                                  |                 |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|
| <b>One Semester</b>                                                                                                                                                                                                          |                                                                                                                                                                                                                  |                 |              |
| There are Two papers; each with 100 maximum marks. The candidate must obtain 50% or more marks in each paper independently to qualify in the course work. The answer papers will be assessed independently by two examiners. |                                                                                                                                                                                                                  |                 |              |
| <b>Paper-I: Research Methodology, Advanced Tools &amp; Techniques, Quantitative Data Analyses and Computer Fundamentals</b>                                                                                                  |                                                                                                                                                                                                                  |                 |              |
|                                                                                                                                                                                                                              |                                                                                                                                                                                                                  | <b>Lectures</b> | <b>Marks</b> |
| <b>A</b>                                                                                                                                                                                                                     | <b>Research Methodology:</b>                                                                                                                                                                                     | <b>20</b>       | <b>25</b>    |
|                                                                                                                                                                                                                              | Introduction and Scope                                                                                                                                                                                           | 2L              |              |
|                                                                                                                                                                                                                              | Research problem: Identification, Selection, Formulation of research objectives                                                                                                                                  |                 |              |
|                                                                                                                                                                                                                              | Research design: Components, Importance, Types                                                                                                                                                                   | 3L              |              |
|                                                                                                                                                                                                                              | Types of data, Data collection - Methods and Tools                                                                                                                                                               | 2L              |              |
|                                                                                                                                                                                                                              | Research ethics, Institutional ethics committee                                                                                                                                                                  | 2L              |              |
|                                                                                                                                                                                                                              | Plagiarism - Pitfall                                                                                                                                                                                             | 2L              |              |
|                                                                                                                                                                                                                              | Patents and IPR: Patent laws, process of patenting a research finding, Copy right, Cyber laws                                                                                                                    | 3L              |              |
|                                                                                                                                                                                                                              | Bibliometrics: Measurement of academic output- Citation Index: Science Citation Index (SCI), h-index, i-10-index. Journal Impact Factor (JIF); Style of Bibliography, Project, research paper and review writing | 6L              |              |
| <b>B</b>                                                                                                                                                                                                                     | <b>Advanced Tools &amp; Techniques</b>                                                                                                                                                                           | <b>20</b>       | <b>25</b>    |
|                                                                                                                                                                                                                              | Microscopic techniques –Electron microscopy and Confocal microscopy                                                                                                                                              | 5L              |              |
|                                                                                                                                                                                                                              | Principle, protocol and application of Chromatography – GLC & HPLC, Electrophoresis and its application                                                                                                          | 5L              |              |
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|                                                                                                                                                                                                                              | Protein microarray and Protein sequencing                                                                                                                                                                        | 5L              |              |
| <b>C</b>                                                                                                                                                                                                                     | <b>Quantitative Data Analyses</b>                                                                                                                                                                                | <b>20</b>       | <b>25</b>    |
|                                                                                                                                                                                                                              | Hypothesis testing                                                                                                                                                                                               | 2L              |              |
|                                                                                                                                                                                                                              | Normal and Binomial distributions and their property                                                                                                                                                             | 3L              |              |
|                                                                                                                                                                                                                              | Tests of significance: Student <i>t</i> -test, <i>F</i> -test, <i>Chi-square</i> test                                                                                                                            | 5L              |              |
|                                                                                                                                                                                                                              | Correlation and Regression                                                                                                                                                                                       | 4L              |              |
|                                                                                                                                                                                                                              | ANOVA – One-way and Two-way, Multiple-range test                                                                                                                                                                 | 6L              |              |
| <b>D</b>                                                                                                                                                                                                                     | <b>Computer Fundamentals</b>                                                                                                                                                                                     | <b>20</b>       | <b>25</b>    |
|                                                                                                                                                                                                                              | Introduction to MS-Office software: MS-Word (Track change)                                                                                                                                                       | 2L              |              |
|                                                                                                                                                                                                                              | MS-Excel                                                                                                                                                                                                         | 2L              |              |
|                                                                                                                                                                                                                              | MS-Power Point                                                                                                                                                                                                   | 2L              |              |
|                                                                                                                                                                                                                              | MS-Access                                                                                                                                                                                                        | 2L              |              |

|  |                                                                                                                  |    |  |
|--|------------------------------------------------------------------------------------------------------------------|----|--|
|  | Literature search technique using SCOPUS, Google Scholar, PUBMED, Web of Science                                 | 6L |  |
|  | Features for Statistical data analysis using computers and software, Microsoft Excel Data Analysis ToolPak, SPSS | 6L |  |

|                                                     |                                                                                            |  |      |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------|--|------|
| <b>Paper-II: Review of Literature &amp; Seminar</b> |                                                                                            |  |      |
| <b>A</b>                                            | Review of Literature – Writing review of literature in the area of the proposed Ph.D. work |  | 50.0 |
| <b>B</b>                                            | Seminar – Based on the review of literature                                                |  | 50.0 |

### Recommended Books:

|                                     |                                                                             |
|-------------------------------------|-----------------------------------------------------------------------------|
| AI Vogel                            | Analytical chemistry                                                        |
| BK Sharma                           | Instrumental methods of analysis                                            |
| Buranen L and Roy AM                | Perspectives on Plagiarism and Intellectual Property in a Post-Modern World |
| Campbell RC                         | Statistics for biologists                                                   |
| Cassel P <i>et al.</i>              | Inside Microsoft Office Professional                                        |
| Chatwal and Chatwal                 | Instrumentation                                                             |
| Coleman P and Dyson P               | Mastering Internets                                                         |
| CR Kothari                          | Research Methodology: Methods & techniques, 2008                            |
| Gilmore B                           | Plagiarism: Why it happens, How to prevent it?                              |
| Gralla P                            | How the Internet Works                                                      |
| Habraken J                          | Microsoft® Office 2003 All in One, Microsoft® Office 2010 In Depth          |
| Kumar Anupa P                       | Cyber Law                                                                   |
| R Panneerselvam                     | Research Methodology                                                        |
| Shelly GB, Vermaat ME, Cashman TJ   | Microsoft® 2007: Introductory Concepts and                                  |
| Techniques Snedecor GW & Cochran WG | Statistical Methods                                                         |
| Sokal RR & Rohlf FJ                 | Introduction to Biostatistics                                               |
| Sood V                              | Cyber Law Simplified                                                        |
| Sumner M                            | Computers: Concepts & Uses                                                  |
| Upadhyaya and Upadhyaya             | Instrumentation                                                             |
| Wardlaw AC                          | Practical Statistics for Experimental Biologists                            |
| White R                             | How Computers Work                                                          |
| Zar JH                              | Biostatistical Analysis                                                     |

# SYLLABUS

2018-19



**PT. RAVISHANKAR SHUKLA UNIVERSITY**  
**RAIPUR**  
**CHHATTISGARH**

एम.ए. भाषाविज्ञान (सेमेस्टर पदति) : 2017-2018  
**M.A. LINGUISTICS : (SEMESTER SYSTEM)**  
**प्रथम सेमेस्टर FIRST SEMESTER**

| प्रश्न पत्र प्रश्न-पत्र का नाम<br>Paper Title of the Paper                                                           | Theory | Internal | M.M |
|----------------------------------------------------------------------------------------------------------------------|--------|----------|-----|
| 1 भाषाविज्ञान का परिचय एवं भारतीय भाषाचिंतन परंपरा<br>Introduction to Linguistics and<br>Indian Linguistic Tradition | 80     | 20       | 100 |
| 2 भाषा की प्रयोजनीयता Functionality of Language                                                                      | 80     | 20       | 100 |
| 3 ध्वनिकी एवं ध्वनिमी-Phonetics and Phonemics                                                                        | 80     | 20       | 100 |
| 4 रूपविज्ञान- Morphology-I                                                                                           | 80     | 20       | 100 |

**द्वितीय सेमेस्टर SECOND SEMESTER**

| प्रश्न पत्र प्रश्न-पत्र का नाम<br>Paper Title of the Paper | Theory | Internal | M.M |
|------------------------------------------------------------|--------|----------|-----|
| 5 अर्थविज्ञान Semantics                                    | 80     | 20       | 100 |
| 6 शैलीविज्ञान Stylistics                                   | 80     | 20       | 100 |
| 7 ध्वनिकी एवं ध्वनिमी-II Phonetics and Phonemics-II        | 80     | 20       | 100 |
| 8 रूपविज्ञान II - Morphology-II                            | 80     | 20       | 100 |

**तृतीय सेमेस्टर THIRD SEMESTER**

| प्रश्न पत्र प्रश्न-पत्र का नाम<br>Paper Title of the Paper                                    | Theory | Internal | M.M |
|-----------------------------------------------------------------------------------------------|--------|----------|-----|
| 9 वाक्यविज्ञान Syntax                                                                         | 80     | 20       | 100 |
| 10 भाषा एवं समाज Language and Society                                                         | 80     | 20       | 100 |
| 11 मनोभाषाविज्ञान एवं द्वितीय भाषाशिक्षण<br>Psycholinguistics and Second Language<br>Teaching | 80     | 20       | 100 |
| 12 क्षेत्र-प्रणाली Field-Method                                                               | 80     | 20       | 100 |

**चतुर्थ सेमेस्टर FOURTH SEMESTER**

| प्रश्न पत्र प्रश्न-पत्र का नाम<br>Paper Title of the Paper                              | Theory | Internal | M.M |
|-----------------------------------------------------------------------------------------|--------|----------|-----|
| 13 अनुवाद Translation                                                                   | 80     | 20       | 100 |
| 13 विकल्प (A) संप्रेषणपरक हिंदी Communicative Hindi<br>विकल्प (B) Communicative English | 80     | 20       | 100 |
| 3 छत्तीसगढ़ी Chhattisgarhi                                                              | 80     | 20       | 100 |
| 4 प्रोवित्त-विश्लेषण Discourse- Analysis                                                | 80     | 20       | 100 |

*Sheel Sheer*  
24-09-2018

सेमेस्टर-। प्रश्नपत्र-।

**SEMESTER - I PAPER - I**

भाषाविज्ञान का परिचय एवं भारतीय भाषाचिंतन परंपरा

**INTRODUCTION TO LINGUISTICS AND INDIAN  
LINGUISTIC TRADITION**

इकाई-1 भाषा-परिभाषा एवं विशेषताएँ, भाषा के अवयव- ध्वनि, रूप, शब्द, पदबंध, उपवाक्य, वाक्य, अर्थ।

UNIT-I Language- Definition and Characteristics, Constituents of Language- Sound, Morph, Word, Phrase, Clause, Sentence, Meaning.

इकाई-2. मानव-भाषा एवं मानवेतर भाषा, मौखिक एवं लिखित भाषा, भाषा और बोली, बोली के भाषा बनने के कारण, भाषाई परिवर्तन के कारण एवं दिशाएँ।

UNIT-II Human Language and Non- human Language, Oral and Written Language, Language and Dialect , Factors causing a dialect to be a language, Factors causing Language Change and Directions of Change.

इकाई-3. भाषाविज्ञान- परिभाषा, प्रकृति, भाषा-अध्ययन की विभिन्न पद्धतियाँ-वर्णनात्मक, तुलनात्मक, ऐतिहासिक, व्यतिरेकी।

UNIT-III Linguistics- Definition, Nature, Various Methods of Linguistic Study- Descriptive,

Comparative, Historical, Contrastive .

इकाई-4. भाषाविज्ञान की शाखाएँ-ध्वनिविज्ञान, ध्वनिप्रक्रिया, रूपविज्ञान, वाक्यविज्ञान, अर्थविज्ञान, समाजभाषाविज्ञान, भाषाभूगोल, शैलीविज्ञान, अनुवादविज्ञान, मनोभाषाविज्ञान, भाषाशिक्षण। अन्य विज्ञानों से भाषाविज्ञान का संबंध।

UNIT-IV Branches of Linguistics- Phonetics, Phonology, Morphology, Syntax, Semantics, Sociolinguistics, Linguistic Geography, Stylistics, Translatology, Psycho-linguistics, Language Teaching. Relation of Linguistics with other Sciences.

इकाई-5. भारतीय भाषा-चिंतन-परंपरा- वेदए निघंटु। यास्क, पाणिनि, कात्यायन, पतंजलि, कैयट, नागेश, भट्टोजिदीक्षित, हेमचंद्र, आदि का योगदान।

UNIT-V Indian Linguistic Tradition-Vedas, Nighantu. Contributions of Yask, Panini,

*Shiv Sh*  
24-09-2018

Katyayan, Patanjali, Kaiyat,  
Nagesh, Bhattojidikshit, Hemchandra, etc.

निर्धारित पुस्तकें Books Prescribed :

1. भाषाविज्ञान एवं भाषाशास्त्र – कपिलनाथ द्विवेदी
2. भाषाविज्ञान – भोला नाथ तिवारी
3. भाषाविज्ञान – राजमल बोरा (संपादक)
4. भाषाविज्ञान – सैद्धांतिक चिंतन – रवीन्द्रनाथ श्रीवास्तव
5. भारतीय भाषावैज्ञानिक चिंतन – विद्यानिवास मिश्र
6. सैद्धांतिक भाषाविज्ञान – ल्यंस
7. Theoretical Linguistics - John Lyons
8. Introduction to General Linguistics- Robins
9. Linguistics - David Crystal
10. The Study of Language - George Yule

सेमेस्टर- I प्रश्नपत्र-II

**SEMESTER - I PAPER - II**

भाषा की प्रयोजनीयता

**FUNCTIONALITY OF LANGUAGE**

इकाई-1. भाषा के प्रयोजन

I. भाषा-प्रयोजन का आशय

II. प्रयोजनमूलक भाषा का स्वरूप, व्याप्ति, एवं महत्त्व

III. भाषा के विविध रूप-कार्यालयी, जनसंचार, साहित्य, विधि, आदि।

UNIT-I Functions of Language

I. Meaning of Functions of Language.

II. Nature, Scope and Importance of Functional Language.

III. Different Forms of Language- Official, Media, Literature, Law, etc.

इकाई-2. भाषा और कंप्यूटर

1. कंप्यूटर : परिचय एवं उपयोग

2. इंटरनेट-परिचय

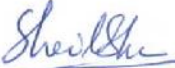
3. वेबसाइट

4. हिंदी/अंगरेजी सॉफ्टवेयर के पैकेज

UNIT-II Language and Computer

1. Computer - Introduction and Use

2. Internet - Introduction.

  
24-09-2018

3. Website

4. Hindi/ English Software and Packages

इकाई-3. जनसंचार-की भाषा : पत्रकारिता

1. पत्रकारिता : स्वरूप एवं प्रकार

2. समाचार-लेखन

3. साक्षात्कार पत्रकार-वार्ता

4. विज्ञापन

5. आकाशवाणी, दूरदर्शन की भाषा की प्रकृति,

UNIT-III Language and Media

Journalism- Nature and Types, News Writing,

Editing as an Art Interview, Press-

Conference, Advertisement, Language of Radio and  
Television

इकाई-4. पारिभाषिक शब्दावली

1. स्वरूप एवं महत्व

2. पारिभाषिक शब्दावली-निर्माण के सिद्धांत

3. ज्ञान-विज्ञान के विभिन्न क्षेत्रों की पारिभाषिक शब्दावली (केवल निर्धारित शब्द)

UNIT-IV Technical Terminology

Nature and Importance, Principles of Formation

of Technical Terms, Technical Terms

of Various Disciplines of Science and

Humanities, (Prescribed Terms only)

इकाई-5. संक्षिप्तियाँ एवं पदनाम

1. प्रकृति, महत्व एवं सीमाएँ,

2. संक्षिप्ति के सिद्धांत

3. विभिन्न विषयों में प्रचलित संक्षिप्तियाँ

4. महत्वपूर्ण पद-नाम

UNIT-V Abbreviations and Designations

Nature, Importance and Limitation

Principles of Abbreviations

Abbreviations Used in Different Disciplines

Important Designations

निर्धारित पुस्तकें

1. प्रयोजनमूलक हिंदी - बालेंदु शेखर तिवारी

2. प्रयोजनमूलक हिंदी - दंगल झाल्टे

3. प्रयोजनमूलक हिंदी - सूर्यप्रसाद दीक्षित एवं अन्य

4. जनसंचार माध्यमों में हिंदी - चंद्रकुमार

  
24-09-18

5. दूरदर्शन हिंदी के प्रयोजनमूलक विविध प्रयोग – कृष्णकुमार रतू
6. कंप्यूटर के भाषिक अनुप्रयोग – विजय मल्होत्रा
7. हिंदी कंप्यूटिंग – त्रिभुवन नाथ शुक्ल
8. प्रयोजनमूलक हिंदी – प्रो. चित्तरंजनकर एवं सुधीर शर्मा
9. कार्यालयीन हिंदी – प्रो. केशरी लाल वर्मा
10. A Communicative Grammar of English & Leech

सेमेस्टर- I प्रश्नपत्र- III

**SEMESTER - 1 PAPER - III**

ध्वनिकी एवं ध्वनिमी - I

**PHONETICS AND PHONEMICS - I**

इकाई-1. ध्वनिकी (ध्वनिविज्ञान)- प्रकृति एवं व्याप्ति, भाषाविज्ञान की अन्य शाखाओं से संबंध, ध्वनिकी की शाखाएँ- उच्चारण, संवहन, एवं श्रवण।

ध्वनिकी एवं ध्वनिमी में अंतर।

UNIT-I Phonetics- Nature and Scope, Relation with Other Branches of Linguistics, Branches of Phonetics- Articulatory, Acoustic and Auditory.

Differences between Phonetics and Phonology.

इकाई-2. वाक् अवयवों का परिचय तथा ध्वनि उच्चारण में उनकी भूमिका।

UNIT-I Introduction to Organs of Speech and Their Role in production of Sounds.

इकाई-3. वाग्ध्वनियों का वर्गीकरण-स्वर एवं व्यंजन, स्वरों एवं व्यंजनों की सामान्य विशेषताएँ, स्वर एवं व्यंजन में समानताएँ एवं असमानताएँ।

UNIT-III Classification of Speech Sounds- Vowels and Consonants, General Characteristics of Vowels and Consonants, Similarities and Differences between Vowels and Consonants.

इकाई-4 स्वरों का वर्गीकरण-जीभ की ऊँचाई, जीभ का भाग, होठों की स्थिति, कोमल तालु की स्थिति, मांसपेशियों की स्थिति, दीर्घता के आधार पर।

UNIT-IV Classification of Vowels- On the Basis of Tongue Height, Parts of Tongue, Position of Soft Palate, Position of Muscles, Length.

इकाई-5. व्यंजनों का वर्गीकरण-स्थान एवं प्रयत्न, प्राणत्व, तथा घोषत्व के आधार पर।

UNIT-V Classification of Consonants- On the Basis of Places and Manners of Articulation,

*Shailendra*  
24/09-2018



Aspiration and Voicing.

निर्धारित पुस्तके -

Books Prescribed :

1. हिंदी ध्वनिकी और ध्वनिमी : रमेश चंद्र महरोत्रा
2. ध्वनिविज्ञान : गोलोक बिहारी धल
3. स्वनविज्ञान : चतुर्भुज सहाय
4. हिंदी भाषा की ध्वनि संरचना : भोलानाथ तिवारी
5. A Practical Introduction to Phonetics : Catford.
6. A Text Book of English Phonetics for India students : T. Balasubramanian

सेमेस्टर-I प्रश्नपत्र-IV

**SEMESTER - I PAPER - IV**

रूपविज्ञान-I

**MORPHOLOGY - I**

इकाई-1. रूपविज्ञान-प्रकृति एवं क्षेत्र, शाखाएँ, शब्द साधन तथा रूप-साधन।

UNIT-I Morphology- Nature and Scope, Branches, Derivational and Inflectional.

इकाई-2. रूप, संरूप, एवं रूपिम - परिभाषाएँ एवं अंतर।

UNIT-I Morphs, Allomorphs and Morpheme- Definition and Differences.

इकाई-3. रूपिमिक विश्लेषण के सिद्धांत एवं प्रयोग।

UNIT-III Principles and Practices of Morphemic Analysis

इकाई-4. रूपवर्ग एवं शब्द वर्ग।

UNIT-IV Form- Classes and Word- Classes

इकाई-5. संज्ञा, सर्वनाम, विशेषण, एवं क्रिया-शब्दों का रूप-साधन।

UNIT-V Inflection of Nouns, Pronouns, Adjectives, and Verbs

निर्धारित पुस्तकें

Books Prescribed

1. भाषाविज्ञान की रूपरेखा : उदय नारायण तिवारी
2. हिंदी का रूपग्रामिक अध्ययन : महावीर सरन जैन
3. हिंदी भाषा की रूप संरचना : भोलानाथ तिवारी
- 4- Grammar : F - Palmer

*Shail Shree*  
24-09-2018

5- Introduction to Linguistics Structure : A Hill

सेमेस्टर-I प्रश्नपत्र-V

**SEMESTER - II PAPER - V**

अर्थविज्ञान

**SEMANTICS**

इकाई-1. अर्थविज्ञान का क्षेत्र, अर्थविज्ञान और भाषाविज्ञान की अन्य शाखाएँ ।

UNIT-I Scope of Semantics , Semantics and Other Branches of Linguistics.

इकाई-2. अर्थ-प्रकार-समानार्थकता, विलोमार्थकता, अनेकार्थकता, समनामता भाषिक अर्थ एवं संदर्भगत अर्थ में अंतर, अभिधा, लक्षण, व्यंजना ।

UNIT-II Meaning - Types: Synonymy, Antonymy, Polysemy, Homonymy, Difference between Linguistic Meaning and Contextual Meaning, Abhidha (Literal), Lakshana (Idiomatic), Vyanjana (Suggestive).

इकाई-3. भारतीय एवं पाश्चात्य अर्थ-चिंतन-परंपरा, अर्थ का निर्धारण, अर्थ-निर्धारण में संदर्भ की भूमिका ।

UNIT-III Indian and Western Semantic Tradition, Determination of Meaning, Role of Context in Determination of Meaning

इकाई-4. अर्थपरिवर्तन के कारण-ऐतिहासिक, राजनैतिक, साहित्यिक, सामाजिक, धार्मिक, भौगोलिक । अर्थपरिवर्तन की दिशाएँ-विस्तार, संकोच, आदेश ।

UNIT-IV Causes of Semantic Change- Historical, Political, Literary, Social, Religious, Geographical.

Directions of Semantic Change- Extension, Contraction, Suppletion,


इकाई-5. वाक्यविज्ञान एवं अर्थविज्ञान, प्रोक्ति, संज्ञा एवं क्रिया का आर्थी अभिलक्षण ।

UNIT-IV Syntax and Semantics, Discourse, Semantic Features of Nouns and Verbs.

निर्धारित पुस्तकें

Books Prescribed

1. सैद्धांतिक भाषाविज्ञान : ल्यंस
2. हिंदी भाषा की अर्थ-संरचना : भोलानाथ तिवारी
3. Semantics : Palmer

  
24-09-2018

4. Semantics : (Vol 1-2) Lyons
5. Semantics : A Coursebook : Hurford & Heasley

**सेमेस्टर-I प्रश्नपत्र-VI**  
**SEMESTER - II PAPER - VI**  
**शैलीविज्ञान**  
**STYLISTICS**

इकाई-1. शैली-प्रकृति एवं क्षेत्र, भाषा एवं शैली, संदर्भ भेद से शैली-भेद।  
शैली-प्रकार-भाषिक एवं साहित्यिक, औपचारिक एवं अनौपचारिक, भव्य एवं ग्राम्य।  
UNIT-I Style- Nature and Scope, Language and Style, Differences in Style According to Differences in Context, Style -Types- Linguistic and Literary, Formal and Informal, Grand and Rustic

इकाई-2. शैलीविज्ञान-प्रकृति, शैलीविज्ञान एवं अन्य विज्ञानों में संबंध, व्याकरण एवं शैलीविज्ञान।

UNIT-II Stylistics - Nature, Relation between Stylistics and Other Disciplines, Grammar and Stylistics.

इकाई-3. शैलीवैज्ञानिक अध्ययन के प्रतिमान-चयन, विचलन, समांतरता।

UNIT-III Norms of Stylistic Study- Selection, Deviation, Parallelism.

इकाई-4. भारतीय (संस्कृत) शैलीवैज्ञानिक चिंतन-रस, ध्वनि, अलंकार, रीति, वक्रोक्ति, औचित्य।

UNIT-IV Stylistics in Indian (Sanskrit) Poetics- Rasa, Dhvani, Alankar, Riti, Vakrokti, Auchitya.

इकाई-5. पाश्चात्य शैलीवैज्ञानिक चिंतन-रोमन याकोब्सन, ए.हिल, फर्थ, हैलिडे, एन्क्विस्ट।

UNIT-V Western Stylistics- Roman Jakobson, A. Hill, Firth, Halliday, Enkvist, Books Prescribed

1. प्रारंभिक शैलीविज्ञान : चित्तरंजन कर
2. शैलीविज्ञान : सुरेश कुमार
3. शैलीविज्ञान : भोलानाथ तिवारी
4. रीतिविज्ञान : विद्यानिवास मिश्र

5- Linguo-Stylistics - Olga Akhmanova

6- Linguistic Stylistic - Enkvist

*Shaili Shu*  
24-09-18

- 7- Functional Stylistics - V. Prakasham  
8- Directions in Applied Linguistics - David Crystal

सेमेस्टर-I प्रश्नपत्र-VII


SEMESTER - II PAPER - VII

ध्वनिकी एवं ध्वनिमी - II

PHONETICS AND PHONEMICS - II

- इकाई-1. अक्षर-परिभाषा एवं विशेषताएँ, हिंदी/अंग्रेजी की आक्षरिक संरचना।  
UNIT-I Syllable- Definition & Characteristics, Syllabic Structure of Hindi/English.
- इकाई-2. दीर्घता, बलाघात, सुर, तान, अनुतान (हिंदी/अंग्रेजी के उदाहरण)  
UNIT-II Length, Stress, Pitch, Tone, Intonation. (Examples of Hindi/English)
- इकाई-3. स्वनिक लिप्यंकन की धारणा, सामान्य लेखन एवं स्वनिक लिप्यंकन में अंतर, आई.पी.ए.।  
UNIT-III Concept of Phonetic Transcription-, Difference between Usual Writing and Phonetic Transcription, IPA .
- इकाई-4. स्वनिमिक विश्लेषण-सिद्धांत एवं प्रश्न  
UNIT-IV Phonemic Analysis- Principles and Problems .
- इकाई-5. हिंदी/अंग्रेजी ध्वनि-प्रक्रिया  
UNIT-V Hindi/English Phonology.
- Books Prescribed
1. हिंदी ध्वनिकी और ध्वनिमी : रमेश चंद्र महरोत्रा
  2. ध्वनिविज्ञान : गोलोक बिहारी दल
  3. स्वनविज्ञान : चतुर्भुज सहाय
  4. हिंदी भाषा की ध्वनि संरचना : भोला नाथ तिवारी
- 5- A Practical Introduction to Phonetics : Catford
- 6- A Textbook of English Phonetics for Indian Students : T. Balasubramanian

सेमेस्टर-I प्रश्नपत्र-VIII

  
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**SEMESTER - II PAPER - VIII**

रूप विज्ञान - II

**MORPHOLOGY - II**

इकाई-1. शब्दों की सोपानक्रमिक संरचना

UNIT-I Heirachical Structure of Words.

इकाई-2. संधि-प्रकार -स्वरसंधि, व्यंजन संधि, विसर्गसंधि।

UNIT-II Sandhi- Types- Swara sandhi, Vyanjana Sandhi, Visarga Sandhi,

इकाई-3. समास-प्रकार-बहुव्रीहि, कर्मधारय, द्विगु, द्वंद्व, तत्पुरुष, अव्ययी भाव, नञ समास।

UNIT-III Compound-Types Karmadharaya, Dwigu, dwandwa, TatpuruSha, Avyayibhava, Najn Samasa.

इकाई-4. हिंदी/अंग्रेजी शब्द की संपदा-तत्सम, तद्भव, आगत, देशज।

UNIT-IV Vocabulary of Hindi/English-Tatsama, Tadbhava, Agata, Deshaja,

इकाई-5. हिंदी/अंग्रेजी की पदबंध-संरचना-संज्ञापदबंध, विशेषणपदबंध, क्रिया-पदबंध, क्रियाविशेषण पदबंध।

UNIT-V Phrase-Structure of Hindi/English-Noun Phrase, Adjective Phrase, Verb Phrase, Adverb Phrase.

Books Prescribed

1. भाषाविज्ञान की रूपरेखा : उदय नारायण तिवारी
2. हिंदी का रूपग्रामिक अध्ययन : महावीर सरन जैन
3. हिंदी भाषा की रूप संरचना : भोला नाथ तिवारी
4. Grammar : F. Palmer
5. Introduction to Linguistic Structure : A. Hill

**सेमेस्टर-III प्रश्नपत्र-IX**


**SEMESTOR - III PAPER - IX**

वाक्यविज्ञान

**SYNTAX**

इकाई-1. भाषाविज्ञान की अन्य शाखाओं से वाक्यविज्ञान का संबंध -ध्वनिविज्ञान, रूपविज्ञान, अर्थविज्ञान, यथार्थविज्ञान।

UNIT-I Relation between Syntax and Other Branches of Linguistics- Phonetics, Morphology, Semantics, Pragmatics .

  
24-09-2018

इकाई-2. वाक्य-संबंधी भारतीय एवं पाश्चात्य मत, वाक्य के अवयव, वाक्य-प्रकार : रचना की दृष्टि से, अर्थ की दृष्टि से।

UNIT-II Indian and Western Views on Syntax .  
Components of Sentence, Sentence- Types -  
Structurally and Semantically.

इकाई-3. निकटस्थ अवयव-विश्लेषण, अंतःकेंद्रिक और बहिःकेंद्रिक, पदबंध-संरचना-व्याकरण।

UNIT-III IC- Analysis, Endocentric and  
Exocentric Construction , PS- Grammar.

इकाई-4. रूपांतरणपरक-प्रजनक व्याकरण, आंतरिक एवं बाह्य संरचना, रूपांतरण-नियम।

UNIT-IV Transformational - Generative Grammar,  
Deep and Surface Structures, Transformational  
Rules.

इकाई-5. कारक-व्याकरण-मूल कारक- संबंध और व्याकरणिक संबंध, कारक- संबंध और व्याकरणिक संबंध में संबंध।

UNIT-V Case Grammar- Basic Case Relations and  
Grammatical Relations Between Case  
Relations and Grammatical Relations.

Books Prescribed

1. हिंदी का नवीनतम बीज व्याकरण : रमेश चंद्र महरोत्रा
2. हिंदी-परसर्ग : चित्तरंजन कर
- 3-A Course in modern Linguistics % C.F. Hoekett
- 4-Transformational Grammar % Radford
- 5-Syntax : A Minimalist Introduction % Radford
- 6-Mood and Modality % Palmer
- 7-Grammatical Roles and Relations % Palmer

सेमेस्टर-III प्रश्नपत्र-X

**SEMESTER - III PAPER - X**

भाषा एवं समाज


**LANGUAGE AND SOCIETY**

इकाई-1. समाजभाषाविज्ञान की प्रकृति. भाषा और समाज में संबंध, भाषा और संस्कृति।

UNIT-I Nature of Sociolinguistics, Relation  
between Language and Society, Language and  
Culture.

इकाई-2. सामाजिक स्तरीकरण और भाषा, भाषा का सामाजिकीकरण।

UNIT-II Social Stratification and Language,  
Socialisation of Language.

  
24-09-2018

ठकाई-3. भाषा और राष्ट्र, भाषा-नियोजन, राष्ट्रभाषा, राजभाषा।

UNIT-III Language and Nation, Language - Planning, National Language, Official Language.

इकाई-4. भाषाओं का संपर्क, समाजभाषिक परिवर्तन, द्विभाषिकता, बहुभाषिकता, भाषाद्वैत, पिजिन, क्रियोल।

UNIT-IV Languages in Contact, Sociolinguistic Change, Bilingualism, Multilingualism, Diglossia, Pidgin, Creole.

इकाई-5. रिश्ते-नाते के शब्द, रंग-शब्द, संबोधन-पद।

UNIT-V Terms of Relations (Kinship Terms), Colour Terms, Terms of Address.

निर्धारित पुस्तकें

Books Prescribed

1. हिंदी भाषा का सामाजिक संदर्भ : रमा नाथ सहाय
2. हिंदी का सामाजिक संदर्भ : रवींद्रनाथ श्रीवास्तव
- 3- Sociology of Language - Fishman
- 4- Sociolinguistics - Trudgill

सेमेस्टर-III प्रश्नपत्र-XI

**SEMESTER - III PAPER - XI**

मनोभाषाविज्ञान एवं द्वितीय भाषाषिक्षण

**PSYCHOLINGUISTICS AND SECOND LANGUAGE TEACHING**

इकाई-1. मनोभाषाविज्ञान- प्रकृति एवं क्षेत्र, भाषा-अर्जन का मनोवैज्ञानिक आधार।

UNIT-I Psycholinguistics - Nature & Scope, Psychological Basis For Language- Acquisition,

इकाई-2. उच्चरित शब्दों का संज्ञान एवं भाषा-प्रयोग की सामान्य शर्तें।

UNIT-II Cognition of Articulated Words and General Conditions of Language Use.

इकाई-3. द्वितीय भाषा-अधिगम, अर्जन एवं शिक्षण।

UNIT-III Second Language- Learning, Acquisition, and Teaching.

इकाई-4. भाषा-सामर्थ्य और भाषा-व्यवहार।

UNIT-IV Language Competence and Language Performance

इकाई-5. मातृभाषा-शिक्षण, प्रथम भाषा, अन्य/विदेशी भाषा।

*Sheel Sheer*  
24-09-18

UNIT-V Teaching of Mother Tongue, First Language, Other/Foreign Language.

Books Prescribed

1. हिंदी भाषाशिक्षण : मनोरमा गुप्ता
  2. भाषाविज्ञान एवं हिंदी भाषाशिक्षण की अधुनातन प्रवृत्तियाँ : शिवेन्द्र किशोर वर्मा
  3. अनुप्रयुक्त भाषाविज्ञान : भोला नाथ तिवारी
- 4- Second Language Acquisition : Clein

**सेमेस्टर-III प्रश्नपत्र-XII**

**SEMESTER - III PAPER - XII**

**क्षेत्र-प्रणाली**

**FIELD - METHOD**

इकाई-1. क्षेत्र-सर्वेक्षण-उद्देश्य, प्रश्नावली, सूचक, सर्वेक्षक, क्षेत्र-सर्वेक्षण के लिए आधार-सामग्री।

UNIT-I Field - Survey - Objectives, Sampling, Questionnaire, Informant, Surveyor, The Base Material for Field Survey.

इकाई-2. सामग्री-संकलन-प्रणालियाँ-प्राथमिक एवं द्वितीयक स्रोत, सूक्ष्म एवं स्थूल लिप्यंकन।

UNIT-II Data-Collection- Methods- Primary and Secondary Sources, Narrow and Broad Transcription.

इकाई-3. विश्लेषण- ध्वनिप्रक्रियात्मक, रूपप्रक्रियात्मक, वाक्यात्मक, और अर्थात्मक।

UNIT-III Analysis- Phonological, Morphological, Syntactic, and Semantic.

इकाई-4. प्रस्तुतीकरण, सारणियाँ, चित्र, ग्राफ, इत्यादि।

UNIT-IV Compilation- Presentation, Tables, Diagrams, Graph, etc.


इकाई-5. भाषिक मानचित्रावली- प्रणालियाँ, एवं प्रकार, महत्व।

UNIT-V Linguistic Maps- Methods and Types, Importance.

निर्धारित पुस्तकें-

Books Prescribed

1. भाषा भूगोल : कैलाश चंद्र भाटिया
  2. शब्द भूगोल : हीरा लाल शुक्ल
  3. भाषा-सर्वेक्षण : मुरारी लाल उप्रेती
- 4- A Course in modern Linguistics : C.F.Hockell

  
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- 5- Descriptive Linguistics : H.A. Gleason  
6- Field Linguistics : William J. Samarin  
7- Sociolinguistic Questionnaire Bank : CIIL,  
Mysore

सेमेस्टर-IV प्रश्नपत्र-XIII  
SEMESTER - IV PAPER - XIII

अनुवाद

TRANSLATION

इकाई-1. अनुवाद-परिभाषा, उद्देश्य, महत्व, क्षेत्र, भाषाविज्ञान की अनुप्रयुक्त शाखा के रूप में अनुवाद।

UNIT-I Translation- Definition, Aims and Objectives, Importance, Scope . Translation as An Applied Branch of Linguistics.

इकाई-2. अनुवाद-प्रक्रिया-नाइडा का चिंतन, न्यूमार्क का चिंतन, बाथगेट का चिंतन। पाठ-प्रकार एवं अनुवाद-प्रकार।

UNIT-II Process of Translation- Views of Nida, Newmark, and Bathgate. Types of Text and Types of Translation.

इकाई-3. अनुवाद-कार्य-अनुवादक के गुण, एवं सीमाएँ।

अनुवाद-मूल्यांकन-पद्धतियाँ-शाब्दिक, वाक्यात्मक, आर्थी, सांदर्भिक। अच्छे अनुवादक की विशेषताएँ।

UNIT-III Translation-Work- The Translator- His Ability and Limitations, Translating- Evaluation-Methods- Lexical, Syntactic, Semantic, Contextual, Qualities of a Good Translation.

इकाई-4. अँगरेजी-गद्यांश का हिंदी-अनुवाद


अथवा छत्तीसगढ़ी-गद्यांश का हिंदी-अनुवाद।

UNIT-IV Translation of an English Passage into Hindi OR Translation of a Chhattisgarhi Passage into Hindi.

इकाई-5. हिंदी-गद्यांश का अँगरेजी- अनुवाद।

अथवा हिंदी-गद्यांश का छत्तीसगढ़ी अनुवाद।

UNIT-V Translation of a Hindi Passage into English OR Translation of a Hindi Passage into Chhattisgarhi.

  
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### Books Prescribed

1. अनुवाद सिद्धांत की रूपरेखा : सुरेश कुमार
2. अनुवाद-कला सिद्धांत और प्रयोग : कैलाश चंद्र भाटिया
3. अनुवाद-सिद्धांत और समस्याएँ : रवींद्रनाथ श्रीवास्तव एवं गोस्वामी
4. अनुवाद विज्ञान : भोलानाथ तिवारी
5. अनुवाद-कला और समस्याएँ : वैज्ञानिक अनुसंधान और सांस्कृतिक मंत्रालय, भारत
6. भारतीय भाषाओं से अनुवाद की समस्याएँ : भोलानाथ तिवारी एवं किरणबाला

### सेमेस्टर-IV प्रश्नपत्र-XIV विकल्प (A)

### SEMESTER - IV PAPER - XIV OPTION (A)

संप्रेषणपरक हिंदी

### COMMUNICATIVE HINDI

इकाई-1 संप्रेषण- परिभाषा, प्रक्रिया, विस्तार। संप्रेषण-क्षमता के विकास में भाषाविज्ञान की भूमिका।

UNIT-I Communication- Definition, Process, Scope, Role of Linguistics in Improving Communicative Competence.

इकाई-2 हिंदी में वार्तालाप- वक्ता, श्रोता, विषय-वस्तुए भाषा, स्थिति-संदर्भ, भूमिका-परिवर्तन, शिष्टाचार एवं तकियाकलाम।

UNIT-II Conversation in Hindi-Speaker, Hearer, Subject -Matter, Language, Context of Situation, Role- Shift, Manner, and Mannerism.


इकाई-3 निर्देशक तत्व- पुरुषवाचक सर्वनाम, संकेतवाचक सर्वनाम, कालवाचक एवं स्थानवाचक क्रियाविशेषण, काल एवं पक्ष। अन्विति (कर्ता-क्रिया, कर्म-क्रिया, शून्य)।

UNIT-III Diexis- Personal Pronouns, Demonstrative, Pronouns, Adverbs of Time and Place, Tense and Aspect. Concord (Subject-Verb, Object-Verb, None), Voices (Active-Passive), Speech (Direct-Indirect)

इकाई-4 परसर्ग-प्रयोग- सरल, सामासिक, मिश्र, कृदंत- क्रिया, विशेषण, संज्ञा, एवं क्रियाविशेषण के रूप में प्रयोग।

UNIT-IV Postpositions and Their Uses- Simple, Compound, Complex. Participles Used as Verbs, Adjectives, Nouns, and Adverbs.

इकाई-5 पर्यायवाची शब्दों का विशिष्ट प्रयोग, मुहावरों एवं लोकोक्तियों का प्रयोग।

  
24-09-2018

UNIT-V Specific Uses of Synonymous Words, Use of Idioms and Proverbs.

निर्धारित पुस्तकें

Books Prescribed

1. मानक हिंदी का शुद्धिपरक व्याकरण : रमेश चंद्र महरोत्रा
2. मानक हिंदी में शुद्ध प्रयोग : रमेश चंद्र महरोत्रा
3. हिंदी परसर्ग : चित्तरंजन कर

सेमेस्टर-IV प्रश्नपत्र-XIV विकल्प (B)

**SEMESTER - IV PAPER - XIV OPTION (B)**

**COMMUNICATIVE ENGLISH**

UNIT-I Communication- Definition, Process, Scope, Role of Linguistics in Improving Communicative Competence.

UNIT-II Conversation in English- Speaker, Hearer, Subject, Matter, Language, Context of Situation, Role-Shift, Manner and Mannerism,

UNIT-III Deixis- Personal Pronouns, Demonstrative Pronouns, Articles, Adverbs of Time and Place, Anaphora.

UNIT-IV Prepositions and Their Uses- With Nouns, Verbs, Adjectives. Prepositions Used As Conjunctions. Concord, Voices- Active- Passive, Speech- Direct-Indirect.

UNIT-IV Use of Synonymous Words With Specific Meaning , Use of Idioms and Proverbs.

Books Prescribed

1. Communicative English : Leech
2. A University Grammar of English : Quirk et al
3. A Reference Grammar of English : R.A.Close

सेमेस्टर-IV प्रश्न पत्र-XV

**SEMESTER - IV PAPER - XV**

छत्तीसगढ़ी

**CHHATTISGARHI**

इकाई-1. छत्तीसगढ़ी की भौगोलिक/भाषिक सीमाएँ, विकास।

*Shashi*  
24-09-18

UNIT-II Chhattisgarhi-Geographical and Historical Background, Origin, Nomenclature, Linguistic Boundaries, Development.

इकाई-2. छत्तीसगढ़ी तथा हिंदी की अन्य बोलियाँ (पूर्वी एवं पश्चिमी हिंदी के विशेष संदर्भ में), छत्तीसगढ़ी की उपबोलियाँ।

UNIT-II Chhattisgarhi and Other Dialects of Hindi. (with Special Feature of Eastern and Western Hindi), Sub Dialects of Chhattisgarhi.

इकाई-3. छत्तीसगढ़ी की ध्वनियाँ-स्वर, व्यंजन, संध्यक्षर।

UNIT-III Sound of Chhattisgarhi - Vowels, Consonants, and Diphthongs.

इकाई-4. छत्तीसगढ़ी की व्याकरणिक कोटियाँ- पुरुष, लिंग, वचन, कारक, काल, पक्ष, वृत्ति, वाच्य।

UNIT-IV Grammatical Categories of Chhattisgarhi- Person, Gender, Number, Case, Tense, Aspect, Mood, Voice.

इकाई-5. छत्तीसगढ़ी- शब्द-संपदा- तत्सम, तद्भव, आगत, संकर । शब्द-रचना-सरल, यौगिक, मिश्र । शब्द-भेद ।

UNIT-IV Chhattisgarhi Vocabulary- Tatsam, Tadbhav, Borrowed, Hybrid. Word-Formation- Simple, Compound, Complex. Parts of Speech. निर्धारित पुस्तकें

Books Prescribed

1. छत्तीसगढ़ी भाषा का उद्विकास : नरेन्द्र वर्मा
2. छत्तीसगढ़ी, हलबी, भतरी बोलियों का भाषावैज्ञानिक अध्ययन : भालचंद्र राव
3. हिंदी और उसकी विविध बोलियाँ : दीपचंद्र जैन
4. छत्तीसगढ़ी की व्याकरणिक कोटियाँ : चित्त रंजन कर
5. छत्तीसगढ़ी बोली, व्याकरण और कोष : कांतिकुमार जैन

सेमेस्टर-XIV प्रश्न पत्र-XVI

प्रोक्ति-विश्लेषण

**DISCOURSE-ANALYSIS**

1. प्रोक्ति : प्रोक्ति की अवधारणा एवं प्रकृति, प्रोक्ति के विभिन्न पर्याय ।  
Discourse : Concept & Nature of Discourse,  
Different Terms for Discourse.
2. प्रोक्ति-प्रकार : मौखिक, लिखित, वार्तालाप, साहित्यिक, एकालाप ।

  
24-09-2018

Discourse-Types : Oral, Written, Conversation, Literary, Monologue.

3. प्रोक्ति-संरचना : थीम-संरचना, टॉपिक-संरचना, वाक्य-संरचना में प्रोक्तिमूलक तत्व, प्रोक्ति-चिह्नक ।

Discourse-Structure : Theme Structure, Topic-Structure, Discourse Elements in Sentence-Structure, Discourse-Markers.

4. प्रोक्ति से संबंधित अन्य संकल्पनाएँ : प्रोक्ति और संदर्भ, प्रोक्ति और शैली, प्रोक्ति और विषय-वस्तु

Discourse Related Concepts : Discourse and Context, Discourse and Style, Discourse and Subject-Matter.

5 संसक्ति : वाक्यगत, अर्थगत, एवं संदर्भगत संसक्ति ।

Cohesion : Syntactic, Semantic and Contextual Cohesion.

निर्धारित पुस्तकें Books Prescribed

1. Gillian Brawn & George Yule - Discourse-Analysis, Cambridge.

2. Michael Stubbs - Discourse-Analysis, Basil Blackwell, Oxford

3. भोलानाथ तिवारी : भाषाविज्ञान, किताब महल

5. M.A.K. Halliday & Ruqaiya Hasan - Cohesion in English, Longman,

Deborah Schiffrin - Discourse Markers, Cambridge.

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| प्रश्न पत्र प्रश्न-पत्र का नाम<br>सैद्धांतिक आंतरिक पूर्णांक<br>Paper Title of the<br>Paper | Theory | Internal | M.M. |
|---------------------------------------------------------------------------------------------|--------|----------|------|
|                                                                                             |        |          |      |
|                                                                                             |        |          |      |
|                                                                                             |        |          |      |
|                                                                                             |        |          |      |

*Shweta*  
24-09-2018

| प्रश्न पत्र | प्रश्न-पत्र का नाम                                                                                              | सैद्धांतिक | आंतरिक   | पूर्णांक |
|-------------|-----------------------------------------------------------------------------------------------------------------|------------|----------|----------|
| Paper       | Title of the Paper                                                                                              | Theory     | Internal | M.M      |
| 1           | भाषाविज्ञान का परिचय एवं भारतीय भाषाचिंतन परंपरा<br>Introduction to Linguistics and Indian Linguistic Tradition | 80         | 20       | 100      |
| 2           | भाषा की प्रयोजनीयता<br>Functionality of Language                                                                | 80         | 20       | 100      |
| 3           | ध्वनिकी एवं ध्वनिमी-Phonetics and Phonemics                                                                     | 80         | 20       | 100      |
| 4           | रूपविज्ञान- Morphology-I                                                                                        | 80         | 20       | 100      |

एम. ए. पूर्व भाषाविज्ञान  
**M.A. PREVIOUS LINGUISTICS**

| प्रश्न पत्र | प्रश्न-पत्र का नाम                                                                                               | पूर्णांक |
|-------------|------------------------------------------------------------------------------------------------------------------|----------|
| Paper       | Title of the paper                                                                                               | M.M.     |
| 1           | भाषाविज्ञान का परिचय एवं भारतीय भाषा चिंतन परंपरा<br>Introduction to Linguistics and Indian Linguistic Tradition | 100      |
| 2           | Functionality of Language                                                                                        | 100      |
| 3           | भाषा की प्रयोजनीयता ध्वनिकी एवं ध्वनिमी Phonetics and Phonemics                                                  | 100      |
| 4           | रूपविज्ञान Morphology                                                                                            | 100      |
| 5           | अर्थविज्ञान Semantics                                                                                            | 100      |

*Sheel Sheel*  
24-09-2018

**एम.ए. पूर्व भाषाविज्ञान**  
M.A. PREVIOUS LINGUISTICS

| प्रश्न पत्र<br>Paper | प्रश्न पत्र का नाम<br>title of the paper                                                                        | पूर्णांक<br>m.m. |
|----------------------|-----------------------------------------------------------------------------------------------------------------|------------------|
| 1.                   | भाषाविज्ञान का परिचय एवं भारतीय भाषाचिंतन परंपरा<br>Introduction to Linguistics and Indian Linguistic Tradition | 100              |
| 2.                   | भाषा की प्रयोजनीयता Functionality of Language                                                                   | 100              |
| 3.                   | ध्वनिकी एवं ध्वनिमी Phonetics and Phonemics                                                                     | 100              |
| 4.                   | रूपविज्ञान Morphology                                                                                           | 100              |
| 5.                   | अर्थविज्ञान Semantics                                                                                           | 100              |

**एम.ए. पूर्व भाषाविज्ञान**  
M.A. PREVIOUS LINGUISTICS

प्रश्न पत्र paper - 1

**भाषाविज्ञान का परिचय एवं भारतीय भाषाचिंतन परंपरा**

Introduction to Linguistics and Indian Linguistic Tradition

- इकाई-1** भाषा-परिभाषा एवं विशेषताएँ, भाषा के अवयव-ध्वनि, रूप, शब्द, पदबंध, उपवाक्य, वाक्य, अर्थ ।  
**UNIT-I** Language - Definition and Characteristics, Constituents of Language - Sound, Morph, Word, Phrase, Clause, Sentence, Meaning.
- इकाई-2** मानव-भाषा एवं मानवेतर भाषा, मौखिक एवं लिखित भाषा, भाषा और बोली, बोली के भाषा बनने के कारण, भाषाई परिवर्तन के कारण एवं दिशाएँ ।  
**UNIT-II** Human Language and Non - human Language, Oral and Written Language, Language and Sialect, Factors causing a dialect to be a language, Factors causing Language Change and Directions of change.
- इकाई-3** भाषाविज्ञान- परिभाषा, प्रकृति, भाषा-अध्ययन की विभिन्न पद्धतियाँ-वर्णनात्मक, तुलनात्मक, ऐतिहासिक, व्यतिरेकी ।  
**UNIT-III** Linguistics- Definition, Nature, Various Methods of Linguistic study - Descriptive, Comparative, Historical, Contrastive.
- इकाई-4** भाषाविज्ञान की शाखाएँ-ध्वनिविज्ञान, ध्वनिप्रक्रिया, रूपविज्ञान, वाक्यविज्ञान, अर्थविज्ञान, समाजभाषाविज्ञान, भाषाभूगोल, शैलीविज्ञान, अनुवादविज्ञान, मनोभाषाविज्ञान, भाषाशिक्षण । अन्य विज्ञानों से भाषाविज्ञान का संबंध ।  
**UNIT-IV** Branches of Linguistics - Phonetics, Phonology, Morphology, Syntax, Semantics, Sociolinguistics, Linguistic Geography Stylistics, Translatology, Psycho - linguistics, Language Teaching, Relation of Linguistics with other Sciences,
- इकाई-5** भारतीय भाषा- चिंतन- परंपरा- वेद, निघंटु । यास्क, पाणिनि, कात्यायन, पतंजलि, कैयट, नागेश, भट्टोजिदीक्षित, हेमचंद्र, आदि का योगदान ।  
**UNIT-V** Indian Linguistic Tradition - Vedas, Nighantu, Contributions of Yask, Nanini, Katyayan, Patanjali, Kaiyat, Nagesh, Bhattojidiikshit, Hemchndra, etc.

*Shudhanshu*  
24-09-2018

निर्धारित पुस्तकें

books prescribed-

1. भाषाविज्ञान एवं भाषाशास्त्र - कपिलनाथ द्विवेदी आपार्य
2. भाषाविज्ञान - भोला नाथ तिवारी
3. भाषाविज्ञान - राजमल बोरा (संपादक)
4. भाषाविज्ञान - सैद्धांतिक चिंतन - रवीन्द्रनाथ श्रीवास्तव
5. भारतीय भाषावैज्ञानिक चिंतन - विद्यानिवास मिश्र
6. सैद्धांतिक भाषाविज्ञान - ल्यंस
7. Theoretical Linguistics- John Lyons
8. Introduction to General Linguistics- Robins
9. Linguistics- David Crystal
10. The study of Language- George Yule

प्रश्नपत्र - II paper- II

भाषा की प्रयोजनीयता

Functionality of Language

इकाई-1 भाषा के प्रयोजन

- I भाषा- प्रयोजन का आशय
- II प्रयोजनमूलक भाषा का स्वरूप, व्याप्ति, एवं महत्व
- III भाषा के विविध रूप- कार्यालयी, जनसंचार साहित्य, विधि, आदि ।

UNIT-I Functions of Language

Meaning of Functions of Language, Nature, Scope and Importance of Functional language, Different Forms of language- Official, Media, Literature, Law, etc.

इकाई-2 भाषा और कंप्यूटर

1. कंप्यूटर : परिचय एवं उपयोग
2. इंटरनेट-परिचय
3. वेबसाइट
4. हिंदी/अंगरेजी सॉफ्टवेयर के पैकेज

UNIT-II Language and Computer

Computer - Introduction and use  
Internet - Introduction.  
Website, Hindi/English Software and Packages

इकाई-3 जनसंचार- की भाषा

अ - पत्रकारिता

1. पत्रकारिता : स्वरूप एवं प्रकार
2. समाचार - लेखन
3. साक्षात्कार, पत्रकार- वार्ता
4. विज्ञापन  
आकाशवाणी, दूरदर्शन की भाषाकी प्रकृति,

Sheel Shome  
24/09/18



**UNIT-III Language and media**

Journalism- Nature and Types, News Writing, Editing as an art, Interview, Press- Conference, Advertisement, Language of Radio and Television

**इकाई-4 पारिभाषिक शब्दावली**

1. स्वरूप एवं महत्व
2. पारिभाषिक शब्दावली- निर्माण के सिद्धांत
3. ज्ञान-विज्ञान के विभिन्न क्षेत्रों की पारिभाषिक शब्दावली (केवल निर्धारित शब्द)

**UNIT-IV Technical Terminology**

Nature and Importance, Principles of Formation of Technical Terms, Technical Terms of Various disciplines of Science and Humanities, (prescribed terms only)

**इकाई-5 संक्षिप्तियाँ एवं पदनाम**

1. प्रकृति महत्व एवं सीमाएँ
2. संक्षिप्त के सिद्धांत
3. विभिन्न विषयों में प्रचलित संक्षिप्तियाँ
4. महत्वपूर्ण पद नाम

**UNIT-V Abbreviations and Designations**

Nature, Importance and Limitation

Principles of Abbreviations

Abbreviations used in different disciplines

Important Designations

**निर्धारित पुस्तकें**

**Books Prescribed-**

1. प्रयोजनमूलक हिंदी- बालेंदु शेखर तिवारी
2. प्रयोजनमूलक हिंदी- दंगल झाल्टे
3. प्रयोजनमूलक हिंदी- सूर्यप्रसाद दीक्षित एवं अन्य
4. जनसंचार माध्यमों में हिंदी- चंद्रकुमार
5. दूरदर्शन हिंदी के प्रयोजनमूलक विविध प्रयोग- कृष्णकुमार रतू
6. कंप्यूटर के भाषिक अनुप्रयोग- विजय मल्होत्रा
7. हिंदी कंप्यूटिंग- त्रिभुवन नाथ शुक्ल
8. प्रयोजनमूलक हिंदी- चित्तरंजनकर एवं सुधीर शर्मा
9. कार्यालयी हिंदी- केशरी लाल वर्मा
10. A Communicative Grammar of English : Leech, Geoffrey

**प्रश्नपत्र - III paper- III**

**ध्वनिकी एवं ध्वनिमी**

**Phonetics and Phonemics**

**इकाई-1 ध्वनिकी (ध्वनिविज्ञान)- प्रकृति एवं व्याप्ति, भाषाविज्ञान की अन्य शाखाओं से संबंध, ध्वनिकी की शाखाएँ- उच्चारण, संवहन, एवं श्रवण । ध्वनिकी एवं ध्वनिमी में अंतर ।**

**UNIT-I Phonetics- Nature and Scope, Relation with other branches of linguistics, Branches of Phonetics- Articulatory, Acoustic and Auditory.**

*ShardShan*  
24-09-2018

Differences between Phonetics and Phonology.

इकाई-2 वागवयवों का परिचय तथा ध्वनि-उच्चारण में उनकी भूमिका।

UNIT-II Introduction to Organs of Speech and their role in production of sounds.

इकाई-3 वाग्ध्वनियों का वर्गीकरण- स्वर एवं व्यंजन, स्वरों एवं व्यंजनों की सामान्य विशेषताएँ, स्वर एवं व्यंजन में समानताएँ एवं असमानताएँ।

UNIT-III Classification of Speech Sounds- Vowels and Consonants, General Characteristics of Vowels and Consonants, Similarities and differences between Vowels and Consonants;

इकाई-4 स्वरों का वर्गीकरण- जीभ की ऊँचाई, जीभ का भाग, होंठों की स्थिति, कोमल तालु की स्थिति, मांसपेशियों की स्थिति, दीर्घता के आधार पर। व्यंजनों का वर्गीकरण- स्थान एवं प्रयत्न, प्राणत्व, तथा घोषत्व के आधार पर।

UNIT-IV Classification of Vowels- On the basis of tongue height, parts of tongue, position of soft palate, position of muscles, Length. Classification of Consonants- On the basis of places and manners of articulation, aspiration and voicing.

इकाई-5 अक्षर- परिभाषा एवं विशेषताएँ, हिंदी / अँग्रेजी की आक्षरिक संरचना। दीर्घता, बलाघात, सुर, तान, अनुतान (हिंदी/अँग्रेजी के उदाहरण)।

UNIT-V Syllable- Definition & characteristics, Syllabic Structure of Hindi / English, Length, stress, pitch, tone, Intonation. (Examples of Hindi / English)

निर्धारित पुस्तकें

Books Prescribed

- |                                                        |   |                     |
|--------------------------------------------------------|---|---------------------|
| 1. हिंदी ध्वनिकी और ध्वनिमी                            | : | रमेश चंद्र महरोत्रा |
| 2. ध्वनिविज्ञान                                        | : | गोलोक बिहारी धल     |
| 3. स्वनविज्ञान                                         | : | चतुर्भुज साहाय      |
| 4. हिंदी भाषा की ध्वनि संरचना                          | : | भोलानाथ तिवारी      |
| 5. A Practical Introduction to Phonetics               | : | Catford             |
| 6. A Textbook of English Phonetics for Indian Students | : | T. Balasubramanian  |

प्रश्नपत्र - IV paper- IV

रूपविज्ञान

Morphology

इकाई-1 रूपविज्ञान- प्रकृति एवं क्षेत्र, शाखाएँ शब्द-साधन तथा रूप-साधन।

UNIT-I Morphology- Nature and Scope, Branches, Derivational and Inflectional.

इकाई-2 रूप, संरूप, एवं रूपिम-परिभाषाएँ एवं अंतर।

UNIT-II Morphs, Allomorphs and Morpheme- Definition and Differences.

इकाई-3 रूपिमिक विश्लेषण के सिद्धांत एवं प्रयोग।

UNIT-III Principles and Practices of Morphemic Analysis

इकाई-4 रूपवर्ग एवं शब्द वर्ग। शब्दों की सोपानक्रमिक संरचना।

UNIT-IV Form- Classes and Word- Classes, Hierarchical structure of words.

इकाई-5 संज्ञा, सर्वनाम, विशेषण, एवं क्रिया शब्दों का रूप-साधन।

UNIT-V Inflection of Nouns, Pronouns, Adjectives, Verbs.

निर्धारित पुस्तकें

Books Prescribed

- |                           |   |                   |
|---------------------------|---|-------------------|
| 1. भाषाविज्ञान की रूपरेखा | : | उदय नारायण तिवारी |
|---------------------------|---|-------------------|

एम.ए. - भाषाविज्ञान-वार्षिक परीक्षा

(94)

*ShailShree*  
24-09-2018

- |    |                                      |   |                |
|----|--------------------------------------|---|----------------|
| 2. | हिंदी का रूपग्रामिक अध्ययन           | : | महावीर सरन जैन |
| 3. | हिंदी भाषा की रूप संरचना             | : | भोलानाथ तिवारी |
| 4. | Grammar                              | : | F. Palmer      |
| 5. | Introduction to Linguistic Structure | : | A Hill         |

प्रश्नपत्र - V paper- V

अर्थविज्ञान

Semantics

इकाई-1 अर्थविज्ञान का क्षेत्र, अर्थविज्ञान और भाषाविज्ञान की अन्य शाखाएँ

UNIT-I Scope of Semantics, Semantics and other Branches of Linguistics.

इकाई-2 अर्थ-प्रकार-समानार्थकता, विलोमार्थकता, अनेकार्थकता, समनामता भाषिक अर्थ एवं संदर्भगत अर्थ में अंतर, अभिधा, लक्षणा, व्यंजना ।

UNIT-II Meaning - types: Synonymy, Antonymy, Polysemy, Homonymy, Difference between Linguistic Meaning and Contextual Meaning, Abhidha (Literal), Lakshana (idiomatic) Vyanjana (Suggestive).

इकाई-3 भारतीय एवं पाश्चात्य अर्थ चिंतन-परंपरा, अर्थ का निर्धारण, अर्थ- निर्धारण में संदर्भ की भूमिका ।

UNIT-III Indian and Western tradition of Semantics, Determination of meaning, Role of context in determination of meaning.

इकाई-4 अर्थपरिवर्तन के कारण- ऐतिहासिक, राजनैतिक, साहित्यिक, सामाजिक, धार्मिक, भौगोलिक । अर्थपरिवर्तन की दिशाएँ- विस्तार, संकोच, आदेश ।

UNIT-IV Causes of semantic change- historical, political, literary, social, religious, geographical, Directions of semantic change- extension, contraction, suppletion.

इकाई-5 वाक्यविज्ञान एवं अर्थविज्ञान, प्रोक्ति, संज्ञा एवं क्रिया का आर्थी अभिलक्षण ।

UNIT-V Syntax and semantics, Discourse, Semantic features of nouns, verbs.

निर्धारित पुस्तकें

Books Prescribed

- |    |                            |   |                 |
|----|----------------------------|---|-----------------|
| 1. | सैद्धांतिक भाषाविज्ञान     | : | लियोस           |
| 2. | हिंदी भाषा की अर्थ- संरचना | : | भोलानाथ तिवारी  |
| 3. | Semantics                  | : | Palmer          |
| 4. | Semantics                  | : | (Vol 1-2) Lyons |

*Sheel Sheel*  
24-09-2018

एम.ए. अंतिम भाषाविज्ञान  
M.A. FINAL LINGUISTICS

| प्रश्न पत्र<br>Paper | प्रश्न पत्र का नाम<br>title of the paper                                                | पूर्णांक<br>m.m. |
|----------------------|-----------------------------------------------------------------------------------------|------------------|
| 6.                   | वाक्यविज्ञान Syntax                                                                     | 100              |
| 7.                   | भाषा एवं समाज Language and Society                                                      | 100              |
| 8.                   | मनोभाषाविज्ञान एवं द्वितीय भाषाशिक्षण<br>Psycholinguistics and Second Language Teaching | 100              |
| 9.                   | क्षेत्र-प्रणाली Field - Method                                                          | 100              |
| 10.                  | (a) अनुवाद Translation अथवा (b) छत्तीसगढ़ी Chhattisgarhi                                | 100              |

षष्ठ प्रश्न-पत्र

वाक्यविज्ञान

( पेपर कोड - 0424 )

इकाई-1 वाक्यविज्ञान और भाषाविज्ञान की अन्य शाखाओं ( ध्वनिविज्ञान, रूपविज्ञान, अर्थ विज्ञान, संकेत- विज्ञान ) में सहसंबंध ।

इकाई-2 वाक्य-संबंधी भारतीय एवं पाश्चात्य मत । वाक्य के अवयव, वाक्य के प्रकार - रचना एवं अर्थ की दृष्टि से ।

इकाई-3 निकटस्थ अवयव-विश्लेषण, अंतःकेंद्रिक एवं बहिःकेंद्रिक रचनाएँ, पदबन्ध-संरचनात्मक व्याकरण, रूपांतरण परक-प्रजनक व्याकरण ।

इकाई-4 कारक-व्याकरण, संबंधपरक व्याकरण ।

इकाई-5 नियमबद्धता, प्रतिबंध-चयन, रूपांतरण ।

निर्धारित पुस्तकें :

- |                                 |   |                                     |
|---------------------------------|---|-------------------------------------|
| 1. आधुनिक भाषाविज्ञान           | - | भोलानाथ तिवारी                      |
| 2. हिन्दी का वाक्यात्मक व्याकरण | - | सूरजभान सिंह                        |
| 3. हिन्दी का नवीनतम बीज-व्याकरण | - | रमेशचंद्र महरोत्रा एवं चित्तरंजन कर |
| 4. हिन्दी का कारक-व्याकरण       | - | लक्ष्मीबाई बालचन्द्रन               |
| 5. हिन्दी भाषा की वाक्य-संरचना  | - | (सं) भोलानाथ तिवारी                 |

PAPER-VI

SYNTAX

UNIT-I Relationship between syntax and other branches of linguistics- Phonetics, Morphology, Semantics, Semiotics.

UNIT-I Indian and Western views on Sentence. Components of Sentence, Types of Sentence- Structurally and Semantically.

UNIT- II Immediate constituent Analysis, Endocentric and Exocentric Constructions, Phrase- Structure Grammar, Transformational- Generative Grammar.

UNIT-IV Case - Grammar, Relational Grammar.

UNIT-V Rule - Government, Restrictions - Selectional and Transformational.

*Sheel Kumar*  
24-09-2018

सप्तम प्रश्न-पत्र  
भाषा एवं समाज  
( पेपर कोड - 0425 )

- इकाई-1 भाषा और समाज, सामाजिकीकरण, भाषा-समुदाय एवं वाग्व्यवहार, भाषा एवं संस्कृति ।  
इकाई-2 समाजभाषाविज्ञान एवं भाषा का समाजविज्ञान, सामाजिक स्तरीकरण और भाषा ।  
इकाई-3 भाषा एवं राष्ट्र, भाषा-नियोजन, राष्ट्रभाषा, राजभाषा ।  
इकाई-4 भाषाई संपर्क एवं समाजभाषिक परिवर्तन, द्विभाषिकता, बहुभाषिकता, भाषाद्वैत, पिजिन एवं क्रियोल ।  
इकाई-5 रिश्ते-नाते एवं रंगों की शब्दावली ।

निर्धारित पुस्तकें :

1. हिन्दी भाषा का सामाजिक संदर्भ - (सं) रमानाथ सहाय
2. हिन्दी का सामाजिक संदर्भ - रवींद्रनाथ श्रीवास्तव
3. Sociolinguistics - Trudgill

PAPER-VII

LANGUAGE AND SOCIETY

- UNIT-I Language and Society, Socialisation, Linguistic Community and Linguistic Repertoire, Language and Culture.  
UNIT-II Socio-linguistics and Sociology of language, Social Stratification and Language.  
UNIT-III Language and Nation, Language Planning, National Language, Official Language.  
UNIT-IV Language- Contact and Socio Linguistic Change, Bilingualism, Multilingualism, Diglossia Pidgin and Creole.  
UNIT-V Kinship Terms and Colour - terms.

अष्टम प्रश्न-पत्र

मनोभाषाविज्ञान एवं द्वितीय भाषाशिक्षण  
( पेपर कोड - 0426 )

- इकाई-1 मनोभाषाविज्ञान-प्रकृति एवं व्याप्ति । भाषा और मानव-मस्तिष्क, भाषा-प्रत्यक्षीकरण का मनोवैज्ञानिक आधार ।  
इकाई-2 उच्चरित शब्द-ज्ञान एवं भाषा-प्रयोग की सामान्य स्थितियाँ ।  
इकाई-3 द्वितीय भाषा-अर्जन, अधिगम एवं शिक्षण, भाषिक पर्यावरण, विकासात्मक परिप्रेक्ष्य ।  
इकाई-4 भाषा-सामर्थ्य एवं भाषा-व्यवहार, भाषा-अवाप्ति के विभिन्न स्तर ।  
इकाई-5 भाषा-शिक्षण का मनोवैज्ञानिक उपागम, अभ्यास, एवं परीक्षण-विधियाँ ।

निर्धारित पुस्तकें :

1. भाषाविज्ञान एवं हिन्दी भाषाशिक्षण की अधुनातन प्रवृत्तियाँ - शिवेन्द्र किशोर वर्मा
2. हिन्दी भाषाशिक्षण - मनोरमा गुप्त
3. अनुप्रयुक्त भाषाविज्ञान - भोलानाथ तिवारी

PAPER-VIII

PSYCHOLINGUISTICS AND SECOND LANGUAGE TEACHING

- UNIT-I Psycholinguistics- Nature and Scope, Language and Human Brain, Psychological basis for language Tealisation.

एम.ए. - भाषाविज्ञान-वार्षिक परीक्षा

(97)

*Shubhan*  
24-09-2018

- UNIT-I Acquisition of Spoken words and common situations of language- Use.  
 UNIT- III Second Language Acquisition, Learning and teaching, Linguistic Environment, Developmental Perspectives.  
 UNIT-IV Linguistic Competence and Linguistics Performance, Different Levels of Language - Acquisition.  
 UNIT-V Psychological Approach to Language Teaching, Language Drill, and Testing Methods.

नवम प्रश्न-पत्र  
 क्षेत्र - पद्धति  
 ( पेपर कोड - 0427 )

- इकाई-1 क्षेत्र-सर्वेक्षण - उद्देश्य, प्रतिचयन, प्रश्नावली, सूचक, सर्वेक्षक, क्षेत्र-सर्वेक्षण की आधार-सामग्री ।  
 इकाई-2 सामग्री संकलन-विधियाँ - प्राथमिक एवं द्वितीयक स्रोत, सूक्ष्म एवं व्यापक लिप्यंकन ।  
 इकाई-3 विश्लेषण - ध्वनिप्रक्रियात्मक, रूपप्रक्रियात्मक, वाक्यप्रक्रियात्मक, एवं अर्थप्रक्रियात्मक ।  
 इकाई-4 आकलन - प्रस्तुति, सारणी, चित्र, ग्राफ, आदि ।  
 इकाई-5 भाषिक मानचित्रावली - विधियाँ एवं प्रकार, महत्व ।

निर्धारित पुस्तकें :

- |                                   |   |                   |
|-----------------------------------|---|-------------------|
| 1. भाषा-भूगोल                     | - | कैलाशचंद्र भाटिया |
| 2. शब्द भूगोल                     | - | हीरालाल शुक्ल     |
| 3. भाषा-सर्वेक्षण                 | - | मुरारीलाल उप्रेती |
| 4. छत्तीसगढ़ी जनभाषा              | - | व्यास नारायण दुबे |
| 5. A Course in Modern Linguistics | - | C.F. Hockett      |
| 6. Description Linguistics        | - | H.A. Gleason.     |

PAPER- IX  
 FIELD METHOD

- UNIT-I Field survey - Objective, Sampling, Questionnaire, Informant, Surveyor, Basic Material for field survey.  
 UNIT-I Data-Collection-Methods : Primary and Secondary sources, Narrow and Broad Transcription.  
 UNIT- III Analysis - Phonological, Morphological, Syntactic, and Semantic.  
 UNIT-IV Compilation - Presentation, Tabulation, Diagrams, Graphs etc.  
 UNIT-V Linguistic maps - Methods and Types. Importance.

दशम प्रश्न-पत्र  
 विकल्प ( अ )  
 अनुवाद  
 ( पेपर कोड - 0428 )

- इकाई-1 अनुवाद की परिभाषा, अनुवाद का उद्देश्य, महत्व और व्यवहार-क्षेत्र, अनुवादक के दोष, अनुवादक की सीमाएँ, सफल अनुवाद, अनुवाद-सिद्धांत ।

*Shail Shu*  
 24-09-2018

- इकाई-2 अनुवाद-प्रक्रिया - नाइडा का चिंतन, न्यूमार्क का चिंतन, बाथगेट का चिंतन, निष्कर्ष । पाठों के प्रकार, अनुवाद के प्रकार - भाषा-बाह्य-अनुवाद-प्रकार, भाषा-केंद्रित-अनुवाद-प्रकार, गौण-अनुवाद-प्रकार ।
- इकाई-3 अनुवाद-कार्य - अनुवादक के प्रकार, अनुवादक की क्षमताएँ, अनुवादक की भाषा, अनुवाद-मूल्यांकन की विधियाँ-कोशगत, वाक्यविन्यासगत, अर्थगत, संदर्भगत । अनुवाद-शिक्षण - समभाषिक संदर्भ में अनुवाद - शिक्षण, द्विभाषिक संदर्भ में अनुवाद-शिक्षण ।
- इकाई-4 अँगरेजी - गद्यांश का हिन्दी में अनुवाद ।  
अथवा छत्तीसगढ़ी - गद्यांश का हिन्दी में अनुवाद ।
- इकाई-5 हिन्दी - गद्यांश का अँगरेजी में अनुवाद ।  
अथवा हिन्दी - गद्यांश का छत्तीसगढ़ी में अनुवाद ।

निर्धारित पुस्तकें :

- |                                        |   |                                                 |
|----------------------------------------|---|-------------------------------------------------|
| 1. अनुवाद सिद्धांत की रूपरेखा          | : | सुरेश कुमार                                     |
| 2. अनुवाद-कला-सिद्धांत और प्रयोग       | : | कैलाश चंद्र भाटिया                              |
| 3. अनुवाद विज्ञान                      | : | भोलानाथ तिवारी                                  |
| 4. अनुवाद-सिद्धांत और समस्याएँ         | : | रवींद्रनाथ श्रीवास्तव एवं गोस्वामी              |
| 5. अनुवाद-कला और समस्याएँ              | : | वैज्ञानिक अनुसंधान और सांस्कृतिक मंत्रालय, भारत |
| 6. भारतीय भाषाओं से अनुवाद की समस्याएँ | : | भोलानाथ तिवारी एवं किरण बाला                    |

PAPER - X

OPTION - (A)

TRANSLATION

- UNIT-I Translation : Definition, Objective, Importance and Scope, Blemishes and Limitations of Translator.  
Good Translation, Translation Theories.
- UNIT-II Translation Process : Nida's view, Mewmark's view, Bathgate's view, Conclusion.  
Type of Text, Types of Translation, Non-linguistic types of Translation, Linguistic types of Translation, Secondary types of Translation.
- UNIT-III Translation-work - Types of Translator, Abilities of Translator, Language of Translator.  
Translation Evaluation Methods- Lexical, Syntactic, Semantic, Contextual.  
Translation teaching - Monolingual and bilingual contexts.
- UNIT-IV Translation of an English Passage into Hindi. O R  
Translation of a Chhattisgarh Passage into Hindi.
- UNIT-V Translation of a Hindi Passage into English. O R  
Translation of a Hindi Passage into Chhattisgarh.

दशम प्रश्न-पत्र

विकल्प ( ब )

छत्तीसगढ़ी

( पेपर कोड - 0429 )

इकाई-1 छत्तीसगढ़ी की भौगोलिक / ऐतिहासिक पृष्ठभूमि- उत्पत्ति, नामकरण, भाषिक सीमाएँ एवं विकास ।

एम.ए. - भाषाविज्ञान-वार्षिक परीक्षा

(99)

*Sheela*  
24-09-2018

इकाई-2 छत्तीसगढ़ी तथा हिंदी की अन्य बोलियाँ (पूर्वी हिंदी और पश्चिमी हिंदी के विशेष संदर्भ में), छत्तीसगढ़ी की उपबोलियाँ ।

इकाई-3 छत्तीसगढ़ी की ध्वनियाँ - स्वर, व्यंजन, संध्यक्षर ।

इकाई-4 छत्तीसगढ़ी की व्याकरणिक कोटियाँ - पुरुष, लिंग, वचन, कारक, काल, पक्ष, वृत्ति, वाच्य ।

इकाई-5 छत्तीसगढ़ी की शब्द-संपदा- तत्सम् मूल, आगत, संकर । शब्द-रचना- यौगिक, सामासिक, मिश्र । शब्द-भेद ।

निर्धारित पुस्तकें :

- |                                                            |                      |
|------------------------------------------------------------|----------------------|
| 1. छत्तीसगढ़ी भाषा का उद्‌विकास                            | - नरेन्द्र वर्मा     |
| 2. छत्तीसगढ़ी, हलबी, भतरी बोलियों का भाषा वैज्ञानिक अध्ययन | - भालचंद्र राव तैलंग |
| 3. हिंदी और उसकी विविध बोलियाँ                             | - दीपचंद्र जैन       |
| 4. छत्तीसगढ़ी की व्याकरणिक कोटियाँ                         | - (सं) चित्तरंजनकर   |
| 5. छत्तीसगढ़ी बोली, व्याकरण और कोश                         | - कांतिकुमार जैन     |
| 6. छत्तीसगढ़ी जनभाषा                                       | - व्यास नारायण दुबे  |

PAPER-X

OPTION (B)

CHHATTISGARHI

UNIT-I Geographical and Historical Background of Chhattisgarhi - Origin, Nomenclature, Linguistic Boundaries and Development.

UNIT-I Chhattisgarhi and other Dialects of Hindi (with special reference to Eastern and Western Hindi), Sub-dialects of Chhattisgarhi.

UNIT- III Sounds of Chhattisgarhi - Vowels Consonants, and Diphthongs.

UNIT-IV Grammatical categories of Chhattisgarhi - Person, Gender, Number, Case, Tense, Aspect, Mood, Voice.

UNIT-V Vocabulary of Chhattisgarhi - Tatsama, Borrowed, Hybrid, Word-formation - Compound, Complex, Parts of Speech.

*SheelSham*  
24-09-2018



# SYLLABUS

2018-19



**PT. RAVISHANKAR SHUKLA UNIVERSITY**  
**RAIPUR**  
**CHHATTISGARH**

एम.ए. भाषाविज्ञान (सेमेस्टर पदति) : 2017-2018  
**M.A. LINGUISTICS : (SEMESTER SYSTEM)**  
**प्रथम सेमेस्टर FIRST SEMESTER**

| प्रश्न पत्र प्रश्न-पत्र का नाम<br>Paper Title of the Paper                                                           | Theory | Internal | M.M |
|----------------------------------------------------------------------------------------------------------------------|--------|----------|-----|
| 1 भाषाविज्ञान का परिचय एवं भारतीय भाषाचिंतन परंपरा<br>Introduction to Linguistics and<br>Indian Linguistic Tradition | 80     | 20       | 100 |
| 2 भाषा की प्रयोजनीयता Functionality of Language                                                                      | 80     | 20       | 100 |
| 3 ध्वनिकी एवं ध्वनिमी-Phonetics and Phonemics                                                                        | 80     | 20       | 100 |
| 4 रूपविज्ञान- Morphology-I                                                                                           | 80     | 20       | 100 |

**द्वितीय सेमेस्टर SECOND SEMESTER**

| प्रश्न पत्र प्रश्न-पत्र का नाम<br>Paper Title of the Paper | Theory | Internal | M.M |
|------------------------------------------------------------|--------|----------|-----|
| 5 अर्थविज्ञान Semantics                                    | 80     | 20       | 100 |
| 6 शैलीविज्ञान Stylistics                                   | 80     | 20       | 100 |
| 7 ध्वनिकी एवं ध्वनिमी-II Phonetics and Phonemics-II        | 80     | 20       | 100 |
| 8 रूपविज्ञान II - Morphology-II                            | 80     | 20       | 100 |

**तृतीय सेमेस्टर THIRD SEMESTER**

| प्रश्न पत्र प्रश्न-पत्र का नाम<br>Paper Title of the Paper                                    | Theory | Internal | M.M |
|-----------------------------------------------------------------------------------------------|--------|----------|-----|
| 9 वाक्यविज्ञान Syntax                                                                         | 80     | 20       | 100 |
| 10 भाषा एवं समाज Language and Society                                                         | 80     | 20       | 100 |
| 11 मनोभाषाविज्ञान एवं द्वितीय भाषाशिक्षण<br>Psycholinguistics and Second Language<br>Teaching | 80     | 20       | 100 |
| 12 क्षेत्र-प्रणाली Field-Method                                                               | 80     | 20       | 100 |

**चतुर्थ सेमेस्टर FOURTH SEMESTER**

| प्रश्न पत्र प्रश्न-पत्र का नाम<br>Paper Title of the Paper                              | Theory | Internal | M.M |
|-----------------------------------------------------------------------------------------|--------|----------|-----|
| 13 अनुवाद Translation                                                                   | 80     | 20       | 100 |
| 13 विकल्प (A) संप्रेषणपरक हिंदी Communicative Hindi<br>विकल्प (B) Communicative English | 80     | 20       | 100 |
| 3 छत्तीसगढ़ी Chhattisgarhi                                                              | 80     | 20       | 100 |
| 4 प्रोक्ति-विश्लेषण Discourse- Analysis                                                 | 80     | 20       | 100 |

*Sheel Sheer*  
24-09-2018

सेमेस्टर-। प्रश्नपत्र-।

**SEMESTER - I PAPER - I**

भाषाविज्ञान का परिचय एवं भारतीय भाषाचिंतन परंपरा

**INTRODUCTION TO LINGUISTICS AND INDIAN  
LINGUISTIC TRADITION**

इकाई-1 भाषा-परिभाषा एवं विशेषताएँ, भाषा के अवयव- ध्वनि, रूप, शब्द, पदबंध, उपवाक्य, वाक्य, अर्थ।

UNIT-I Language- Definition and Characteristics, Constituents of Language- Sound, Morph, Word, Phrase, Clause, Sentence, Meaning.

इकाई-2. मानव-भाषा एवं मानवेतर भाषा, मौखिक एवं लिखित भाषा, भाषा और बोली, बोली के भाषा बनने के कारण, भाषाई परिवर्तन के कारण एवं दिशाएँ।

UNIT-II Human Language and Non- human Language, Oral and Written Language, Language and Dialect , Factors causing a dialect to be a language, Factors causing Language Change and Directions of Change.

इकाई-3. भाषाविज्ञान- परिभाषा, प्रकृति, भाषा-अध्ययन की विभिन्न पद्धतियाँ-वर्णनात्मक, तुलनात्मक, ऐतिहासिक, व्यतिरेकी।

UNIT-III Linguistics- Definition, Nature, Various Methods of Linguistic Study- Descriptive,

Comparative, Historical, Contrastive .

इकाई-4. भाषाविज्ञान की शाखाएँ-ध्वनिविज्ञान, ध्वनिप्रक्रिया, रूपविज्ञान, वाक्यविज्ञान, अर्थविज्ञान, समाजभाषाविज्ञान, भाषाभूगोल, शैलीविज्ञान, अनुवादविज्ञान, मनोभाषाविज्ञान, भाषाशिक्षण। अन्य विज्ञानों से भाषाविज्ञान का संबंध।

UNIT-IV Branches of Linguistics- Phonetics, Phonology, Morphology, Syntax, Semantics, Sociolinguistics, Linguistic Geography, Stylistics, Translatology, Psycho-linguistics, Language Teaching. Relation of Linguistics with other Sciences.

इकाई-5. भारतीय भाषा-चिंतन-परंपरा- वेदए निघंटु। यास्क, पाणिनि, कात्यायन, पतंजलि, कैयट, नागेश, भट्टोजिदीक्षित, हेमचंद्र, आदि का योगदान।

UNIT-V Indian Linguistic Tradition-Vedas, Nighantu. Contributions of Yask, Panini,

*Shiv Sh*  
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Katyayan, Patanjali, Kaiyat,  
Nagesh, Bhattojidikshit, Hemchandra, etc.

निर्धारित पुस्तकें Books Prescribed :

1. भाषाविज्ञान एवं भाषाशास्त्र – कपिलनाथ द्विवेदी
2. भाषाविज्ञान – भोला नाथ तिवारी
3. भाषाविज्ञान – राजमल बोरा (संपादक)
4. भाषाविज्ञान – सैद्धांतिक चिंतन – रवीन्द्रनाथ श्रीवास्तव
5. भारतीय भाषावैज्ञानिक चिंतन – विद्यानिवास मिश्र
6. सैद्धांतिक भाषाविज्ञान – ल्यंस
7. Theoretical Linguistics - John Lyons
8. Introduction to General Linguistics- Robins
9. Linguistics - David Crystal
10. The Study of Language - George Yule

सेमेस्टर- I प्रश्नपत्र-II

**SEMESTER - I PAPER - II**

भाषा की प्रयोजनीयता

**FUNCTIONALITY OF LANGUAGE**

इकाई-1. भाषा के प्रयोजन

I. भाषा-प्रयोजन का आशय

II. प्रयोजनमूलक भाषा का स्वरूप, व्याप्ति, एवं महत्त्व

III. भाषा के विविध रूप-कार्यालयी, जनसंचार, साहित्य, विधि, आदि।

UNIT-I Functions of Language

I. Meaning of Functions of Language.

II. Nature, Scope and Importance of Functional Language.

III. Different Forms of Language- Official, Media, Literature, Law, etc.

इकाई-2. भाषा और कंप्यूटर

1. कंप्यूटर : परिचय एवं उपयोग

2. इंटरनेट-परिचय

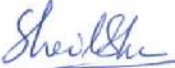
3. वेबसाइट

4. हिंदी/अंगरेजी सॉफ्टवेयर के पैकेज

UNIT-II Language and Computer

1. Computer - Introduction and Use

2. Internet - Introduction.

  
24-09-2018

3. Website

4. Hindi/ English Software and Packages

इकाई-3. जनसंचार-की भाषा : पत्रकारिता

1. पत्रकारिता : स्वरूप एवं प्रकार
2. समाचार-लेखन
3. साक्षात्कार पत्रकार-वार्ता
4. विज्ञापन
5. आकाशवाणी, दूरदर्शन की भाषा की प्रकृति,

UNIT-III Language and Media

Journalism- Nature and Types, News Writing, Editing as an Art Interview, Press-Conference, Advertisement, Language of Radio and Television

इकाई-4. पारिभाषिक शब्दावली

1. स्वरूप एवं महत्व
2. परिभाषिक शब्दावली-निर्माण के सिद्धांत
3. ज्ञान-विज्ञान के विभिन्न क्षेत्रों की पारिभाषिक शब्दावली (केवल निर्धारित शब्द)

UNIT-IV Technical Terminology

Nature and Importance, Principles of Formation of Technical Terms, Technical Terms of Various Disciplines of Science and Humanities, (Prescribed Terms only)

इकाई-5. संक्षिप्तियाँ एवं पदनाम

1. प्रकृति, महत्व एवं सीमाएँ,
2. संक्षिप्ति के सिद्धांत
3. विभिन्न विषयों में प्रचलित संक्षिप्तियाँ
4. महत्वपूर्ण पद-नाम

UNIT-V Abbreviations and Designations

Nature, Importance and Limitation

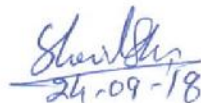
Principles of Abbreviations

Abbreviations Used in Different Disciplines

Important Designations

निर्धारित पुस्तकें

1. प्रयोजनमूलक हिंदी - बालेंदु शेखर तिवारी
2. प्रयोजनमूलक हिंदी - दंगल झाल्टे
3. प्रयोजनमूलक हिंदी - सूर्यप्रसाद दीक्षित एवं अन्य
4. जनसंचार माध्यमों में हिंदी - चंद्रकुमार

  
24-09-18

5. दूरदर्शन हिंदी के प्रयोजनमूलक विविध प्रयोग – कृष्णकुमार रतू
6. कंप्यूटर के भाषिक अनुप्रयोग – विजय मल्होत्रा
7. हिंदी कंप्यूटिंग – त्रिभुवन नाथ शुक्ल
8. प्रयोजनमूलक हिंदी – प्रो. चित्तरंजनकर एवं सुधीर शर्मा
9. कार्यालयीन हिंदी – प्रो. केशरी लाल वर्मा
10. A Communicative Grammar of English & Leech

सेमेस्टर- I प्रश्नपत्र- III

**SEMESTER - 1 PAPER - III**

ध्वनिकी एवं ध्वनिमी - I

**PHONETICS AND PHONEMICS - I**

इकाई-1. ध्वनिकी (ध्वनिविज्ञान)- प्रकृति एवं व्याप्ति, भाषाविज्ञान की अन्य शाखाओं से संबंध, ध्वनिकी की शाखाएँ- उच्चारण, संवहन, एवं श्रवण।  
ध्वनिकी एवं ध्वनिमी में अंतर।

UNIT-I Phonetics- Nature and Scope, Relation with Other Branches of Linguistics, Branches of Phonetics- Articulatory, Acoustic and Auditory.

Differences between Phonetics and Phonology.

इकाई-2. वाक् अवयवों का परिचय तथा ध्वनि उच्चारण में उनकी भूमिका।

UNIT-I Introduction to Organs of Speech and Their Role in production of Sounds.

इकाई-3. वाग्ध्वनियों का वर्गीकरण-स्वर एवं व्यंजन, स्वरों एवं व्यंजनों की सामान्य विशेषताएँ, स्वर एवं व्यंजन में समानताएँ एवं असमानताएँ।

UNIT-III Classification of Speech Sounds- Vowels and Consonants, General Characteristics of Vowels and Consonants, Similarities and Differences between Vowels and Consonants.

इकाई-4 स्वरों का वर्गीकरण-जीभ की ऊँचाई, जीभ का भाग, होठों की स्थिति, कोमल तालु की स्थिति, मांसपेशियों की स्थिति, दीर्घता के आधार पर।

UNIT-IV Classification of Vowels- On the Basis of Tongue Height, Parts of Tongue, Position of Soft Palate, Position of Muscles, Length.

इकाई-5. व्यंजनों का वर्गीकरण-स्थान एवं प्रयत्न, प्राणत्व, तथा घोषत्व के आधार पर।

UNIT-V Classification of Consonants- On the Basis of Places and Manners of Articulation,

*Shailendra*  
24/09-2018

Aspiration and Voicing.

निर्धारित पुस्तके -

Books Prescribed :

1. हिंदी ध्वनिकी और ध्वनिमी : रमेश चंद्र महरोत्रा
2. ध्वनिविज्ञान : गोलोक बिहारी धल
3. स्वनविज्ञान : चतुर्भुज सहाय
4. हिंदी भाषा की ध्वनि संरचना : भोलानाथ तिवारी
5. A Practical Introduction to Phonetics : Catford.
6. A Text Book of English Phonetics for India students : T. Balasubramanian

सेमेस्टर-I प्रश्नपत्र-IV

**SEMESTER - I PAPER - IV**

रूपविज्ञान-I

**MORPHOLOGY - I**

इकाई-1. रूपविज्ञान-प्रकृति एवं क्षेत्र, शाखाएँ, शब्द साधन तथा रूप-साधन।

UNIT-I Morphology- Nature and Scope, Branches, Derivational and Inflectional.

इकाई-2. रूप, संरूप, एवं रूपिम - परिभाषाएँ एवं अंतर।

UNIT-I Morphs, Allomorphs and Morpheme- Definition and Differences.

इकाई-3. रूपिमिक विश्लेषण के सिद्धांत एवं प्रयोग।

UNIT-III Principles and Practices of Morphemic Analysis

इकाई-4. रूपवर्ग एवं शब्द वर्ग।

UNIT-IV Form- Classes and Word- Classes

इकाई-5. संज्ञा, सर्वनाम, विशेषण, एवं क्रिया-शब्दों का रूप-साधन।

UNIT-V Inflection of Nouns, Pronouns, Adjectives, and Verbs

निर्धारित पुस्तकें

Books Prescribed

1. भाषाविज्ञान की रूपरेखा : उदय नारायण तिवारी
2. हिंदी का रूपग्रामिक अध्ययन : महावीर सरन जैन
3. हिंदी भाषा की रूप संरचना : भोलानाथ तिवारी
- 4- Grammar : F - Palmer

*Shail Shree*  
24-09-2018

5- Introduction to Linguistics Structure : A Hill

सेमेस्टर-I प्रश्नपत्र-V

**SEMESTER - II PAPER - V**

अर्थविज्ञान

**SEMANTICS**

इकाई-1. अर्थविज्ञान का क्षेत्र, अर्थविज्ञान और भाषाविज्ञान की अन्य शाखाएँ ।

UNIT-I Scope of Semantics , Semantics and Other Branches of Linguistics.

इकाई-2. अर्थ-प्रकार-समानार्थकता, विलोमार्थकता, अनेकार्थकता, समनामता भाषिक अर्थ एवं संदर्भगत अर्थ में अंतर, अभिधा, लक्षण, व्यंजना ।

UNIT-II Meaning - Types: Synonymy, Antonymy, Polysemy, Homonymy, Difference between Linguistic Meaning and Contextual Meaning, Abhidha (Literal), Lakshana (Idiomatic), Vyanjana (Suggestive).

इकाई-3. भारतीय एवं पाश्चात्य अर्थ-चिंतन-परंपरा, अर्थ का निर्धारण, अर्थ-निर्धारण में संदर्भ की भूमिका ।

UNIT-III Indian and Western Semantic Tradition, Determination of Meaning, Role of Context in Determination of Meaning

इकाई-4. अर्थपरिवर्तन के कारण-ऐतिहासिक, राजनैतिक, साहित्यिक, सामाजिक, धार्मिक, भौगोलिक । अर्थपरिवर्तन की दिशाएँ-विस्तार, संकोच, आदेश ।

UNIT-IV Causes of Semantic Change- Historical, Political, Literary, Social, Religious, Geographical.

Directions of Semantic Change- Extension, Contraction, Suppletion,


इकाई-5. वाक्यविज्ञान एवं अर्थविज्ञान, प्रोक्ति, संज्ञा एवं क्रिया का आर्थी अभिलक्षण ।

UNIT-IV Syntax and Semantics, Discourse, Semantic Features of Nouns and Verbs.

निर्धारित पुस्तकें

Books Prescribed

1. सैद्धांतिक भाषाविज्ञान : ल्यंस
2. हिंदी भाषा की अर्थ-संरचना : भोलानाथ तिवारी
3. Semantics : Palmer

  
24-09-2018



4. Semantics : (Vol 1-2) Lyons
5. Semantics : A Coursebook : Hurford & Heasley

**सेमेस्टर-I प्रश्नपत्र-VI**  
**SEMESTER - II PAPER - VI**  
**शैलीविज्ञान**  
**STYLISTICS**

इकाई-1. शैली-प्रकृति एवं क्षेत्र, भाषा एवं शैली, संदर्भ भेद से शैली-भेद।  
शैली-प्रकार-भाषिक एवं साहित्यिक, औपचारिक एवं अनौपचारिक, भव्य एवं ग्राम्य।  
UNIT-I Style- Nature and Scope, Language and Style, Differences in Style According to Differences in Context, Style -Types- Linguistic and Literary, Formal and Informal, Grand and Rustic

इकाई-2. शैलीविज्ञान-प्रकृति, शैलीविज्ञान एवं अन्य विज्ञानों में संबंध, व्याकरण एवं शैलीविज्ञान।

UNIT-II Stylistics - Nature, Relation between Stylistics and Other Disciplines, Grammar and Stylistics.

इकाई-3. शैलीवैज्ञानिक अध्ययन के प्रतिमान-चयन, विचलन, समांतरता।

UNIT-III Norms of Stylistic Study- Selection, Deviation, Parallelism.

इकाई-4. भारतीय (संस्कृत) शैलीवैज्ञानिक चिंतन-रस, ध्वनि, अलंकार, रीति, वक्रोक्ति, औचित्य।

UNIT-IV Stylistics in Indian (Sanskrit) Poetics- Rasa, Dhvani, Alankar, Riti, Vakrokti, Auchitya.

इकाई-5. पाश्चात्य शैलीवैज्ञानिक चिंतन-रोमन याकोब्सन, ए.हिल, फर्थ, हैलिडे, एन्क्विस्ट।

UNIT-V Western Stylistics- Roman Jakobson, A. Hill, Firth, Halliday, Enkvist, Books Prescribed

1. प्रारंभिक शैलीविज्ञान : चित्तरंजन कर

2. शैलीविज्ञान : सुरेश कुमार

3. शैलीविज्ञान : भोलानाथ तिवारी

4. रीतिविज्ञान : विद्यानिवास मिश्र

5- Linguo-Stylistics - Olga Akhmanova

6- Linguistic Stylistic - Enkvist

*Shaili Shu*  
24-09-18

- 7- Functional Stylistics - V. Prakasham  
8- Directions in Applied Linguistics - David Crystal

सेमेस्टर-I प्रश्नपत्र-VII

SEMESTER - II PAPER - VII

ध्वनिकी एवं ध्वनिमी - II

PHONETICS AND PHONEMICS - II

- इकाई-1. अक्षर-परिभाषा एवं विशेषताएँ, हिंदी/अंग्रेजी की आक्षरिक संरचना।  
UNIT-I Syllable- Definition & Characteristics, Syllabic Structure of Hindi/English.
- इकाई-2. दीर्घता, बलाघात, सुर, तान, अनुतान (हिंदी/अंग्रेजी के उदाहरण)  
UNIT-II Length, Stress, Pitch, Tone, Intonation. (Examples of Hindi/English)
- इकाई-3. स्वनिक लिप्यंकन की धारणा, सामान्य लेखन एवं स्वनिक लिप्यंकन में अंतर, आई.पी.ए.।  
UNIT-III Concept of Phonetic Transcription-, Difference between Usual Writing and Phonetic Transcription, IPA .
- इकाई-4. स्वनिमिक विश्लेषण-सिद्धांत एवं प्रश्न  
UNIT-IV Phonemic Analysis- Principles and Problems .
- इकाई-5. हिंदी/अंग्रेजी ध्वनि-प्रक्रिया  
UNIT-V Hindi/English Phonology.
- Books Prescribed
1. हिंदी ध्वनिकी और ध्वनिमी : रमेश चंद्र महरोत्रा
  2. ध्वनिविज्ञान : गोलोक बिहारी दल
  3. स्वनविज्ञान : चतुर्भुज सहाय
  4. हिंदी भाषा की ध्वनि संरचना : भोला नाथ तिवारी
- 5- A Practical Introduction to Phonetics : Catford
- 6- A Textbook of English Phonetics for Indian Students : T. Balasubramanian

सेमेस्टर-I प्रश्नपत्र-VIII

  
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**SEMESTER - II PAPER - VIII**

रूप विज्ञान - II

**MORPHOLOGY - II**

इकाई-1. शब्दों की सोपानक्रमिक संरचना

UNIT-I Heirachical Structure of Words.

इकाई-2. संधि-प्रकार -स्वरसंधि, व्यंजन संधि, विसर्गसंधि।

UNIT-II Sandhi- Types- Swara sandhi, Vyanjana Sandhi, Visarga Sandhi,

इकाई-3. समास-प्रकार-बहुव्रीहि, कर्मधारय, द्विगु, द्वंद्व, तत्पुरुष, अव्ययी भाव, नञ समास।

UNIT-III Compound-Types Karmadharaya, Dwigu, dwandwa, Tatpuruша, Avyayibhava, Najn Samasa.

इकाई-4. हिंदी/अंग्रेजी शब्द की संपदा-तत्सम, तद्भव, आगत, देशज।

UNIT-IV Vocabulary of Hindi/English-Tatsama, Tadbhava, Agata, Deshaja,

इकाई-5. हिंदी/अंग्रेजी की पदबंध-संरचना-संज्ञापदबंध, विशेषणपदबंध, क्रिया-पदबंध, क्रियाविशेषण पदबंध।

UNIT-V Phrase-Structure of Hindi/English-Noun Phrase, Adjective Phrase, Verb Phrase, Adverb Phrase.

Books Prescribed

1. भाषाविज्ञान की रूपरेखा : उदय नारायण तिवारी
2. हिंदी का रूपग्रामिक अध्ययन : महावीर सरन जैन
3. हिंदी भाषा की रूप संरचना : भोला नाथ तिवारी
4. Grammar : F. Palmer
5. Introduction to Linguistic Structure : A. Hill

**सेमेस्टर-III प्रश्नपत्र-IX**


**SEMESTOR - III PAPER - IX**

वाक्यविज्ञान

**SYNTAX**

इकाई-1. भाषाविज्ञान की अन्य शाखाओं से वाक्यविज्ञान का संबंध -ध्वनिविज्ञान, रूपविज्ञान, अर्थविज्ञान, यथार्थविज्ञान।

UNIT-I Relation between Syntax and Other Branches of Linguistics- Phonetics, Morphology, Semantics, Pragmatics .

  
24-09-2018

इकाई-2. वाक्य-संबंधी भारतीय एवं पाश्चात्य मत, वाक्य के अवयव, वाक्य-प्रकार : रचना की दृष्टि से, अर्थ की दृष्टि से।

UNIT-II Indian and Western Views on Syntax .  
Components of Sentence, Sentence- Types -  
Structurally and Semantically.

इकाई-3. निकटस्थ अवयव-विश्लेषण, अंतःकेंद्रिक और बहिःकेंद्रिक, पदबंध-संरचना-व्याकरण।

UNIT-III IC- Analysis, Endocentric and  
Exocentric Construction , PS- Grammar.

इकाई-4. रूपांतरणपरक-प्रजनक व्याकरण, आंतरिक एवं बाह्य संरचना, रूपांतरण-नियम।

UNIT-IV Transformational - Generative Grammar,  
Deep and Surface Structures, Transformational  
Rules.

इकाई-5. कारक-व्याकरण-मूल कारक- संबंध और व्याकरणिक संबंध, कारक- संबंध और व्याकरणिक संबंध में संबंध।

UNIT-V Case Grammar- Basic Case Relations and  
Grammatical Relations Between Case  
Relations and Grammatical Relations.

Books Prescribed

1. हिंदी का नवीनतम बीज व्याकरण : रमेश चंद्र महरोत्रा
2. हिंदी-परसर्ग : चित्तरंजन कर
- 3- A Course in modern Linguistics % C.F. Hoekett
- 4- Transformational Grammar % Radford
- 5- Syntax : A Minimalist Introduction % Radford
- 6- Mood and Modality % Palmer
- 7- Grammatical Roles and Relations % Palmer

सेमेस्टर-III प्रश्नपत्र-X

**SEMESTER - III PAPER - X**

भाषा एवं समाज


**LANGUAGE AND SOCIETY**

इकाई-1. समाजभाषाविज्ञान की प्रकृति. भाषा और समाज में संबंध, भाषा और संस्कृति।

UNIT-I Nature of Sociolinguistics, Relation  
between Language and Society, Language and  
Culture.

इकाई-2. सामाजिक स्तरीकरण और भाषा, भाषा का सामाजिकीकरण।

UNIT-II Social Stratification and Language,  
Socialisation of Language.

  
24-09-2018

ठकाई-3. भाषा और राष्ट्र, भाषा-नियोजन, राष्ट्रभाषा, राजभाषा।

UNIT-III Language and Nation, Language - Planning, National Language, Official Language.

इकाई-4. भाषाओं का संपर्क, समाजभाषिक परिवर्तन, द्विभाषिकता, बहुभाषिकता, भाषाद्वैत, पिजिन, क्रियोल।

UNIT-IV Languages in Contact, Sociolinguistic Change, Bilingualism, Multilingualism, Diglossia, Pidgin, Creole.

इकाई-5. रिश्ते-नाते के शब्द, रंग-शब्द, संबोधन-पद।

UNIT-V Terms of Relations (Kinship Terms), Colour Terms, Terms of Address.

निर्धारित पुस्तकें

Books Prescribed

1. हिंदी भाषा का सामाजिक संदर्भ : रमा नाथ सहाय
2. हिंदी का सामाजिक संदर्भ : रवींद्रनाथ श्रीवास्तव
- 3- Sociology of Language - Fishman
- 4- Sociolinguistics - Trudgill

सेमेस्टर-III प्रश्नपत्र-XI

SEMESTER - III PAPER - XI

मनोभाषाविज्ञान एवं द्वितीय भाषाषिक्षण

**PSYCHOLINGUISTICS AND SECOND LANGUAGE TEACHING**

इकाई-1. मनोभाषाविज्ञान- प्रकृति एवं क्षेत्र, भाषा-अर्जन का मनोवैज्ञानिक आधार।

UNIT-I Psycholinguistics - Nature & Scope, Psychological Basis For Language- Acquisition,

इकाई-2. उच्चरित शब्दों का संज्ञान एवं भाषा-प्रयोग की सामान्य शर्तें।

UNIT-II Cognition of Articulated Words and General Conditions of Language Use.

इकाई-3. द्वितीय भाषा-अधिगम, अर्जन एवं शिक्षण।

UNIT-III Second Language- Learning, Acquisition, and Teaching.

इकाई-4. भाषा-सामर्थ्य और भाषा-व्यवहार।

UNIT-IV Language Competence and Language Performance

इकाई-5. मातृभाषा-शिक्षण, प्रथम भाषा, अन्य/विदेशी भाषा।

*Sheel Sheer*  
24-09-18

UNIT-V Teaching of Mother Tongue, First Language, Other/Foreign Language.

Books Prescribed

1. हिंदी भाषाशिक्षण : मनोरमा गुप्ता
  2. भाषाविज्ञान एवं हिंदी भाषाशिक्षण की अधुनातन प्रवृत्तियाँ : शिवेन्द्र किशोर वर्मा
  3. अनुप्रयुक्त भाषाविज्ञान : भोला नाथ तिवारी
- 4- Second Language Acquisition : Clein

**सेमेस्टर-III प्रश्नपत्र-XII**

**SEMESTER - III PAPER - XII**

**क्षेत्र-प्रणाली**

**FIELD - METHOD**

इकाई-1. क्षेत्र-सर्वेक्षण-उद्देश्य, प्रश्नावली, सूचक, सर्वेक्षक, क्षेत्र-सर्वेक्षण के लिए आधार-सामग्री।

UNIT-I Field - Survey - Objectives, Sampling, Questionnaire, Informant, Surveyor, The Base Material for Field Survey.

इकाई-2. सामग्री-संकलन-प्रणालियाँ-प्राथमिक एवं द्वितीयक स्रोत, सूक्ष्म एवं स्थूल लिप्यंकन।

UNIT-II Data-Collection- Methods- Primary and Secondary Sources, Narrow and Broad Transcription.

इकाई-3. विश्लेषण- ध्वनिप्रक्रियात्मक, रूपप्रक्रियात्मक, वाक्यात्मक, और अर्थात्मक।

UNIT-III Analysis- Phonological, Morphological, Syntactic, and Semantic.

इकाई-4. प्रस्तुतीकरण, सारणियाँ, चित्र, ग्राफ, इत्यादि।

UNIT-IV Compilation- Presentation, Tables, Diagrams, Graph, etc.


इकाई-5. भाषिक मानचित्रावली- प्रणालियाँ, एवं प्रकार, महत्व।

UNIT-V Linguistic Maps- Methods and Types, Importance.

निर्धारित पुस्तकें-

Books Prescribed

1. भाषा भूगोल : कैलाश चंद्र भाटिया
  2. शब्द भूगोल : हीरा लाल शुक्ल
  3. भाषा-सर्वेक्षण : मुरारी लाल उप्रेती
- 4- A Course in modern Linguistics : C.F.Hockell

  
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- 5- Descriptive Linguistics : H.A. Gleason  
6- Field Linguistics : William J. Samarin  
7- Sociolinguistic Questionnaire Bank : CIIL,  
Mysore

सेमेस्टर-IV प्रश्नपत्र-XIII  
SEMESTER - IV PAPER - XIII

अनुवाद

TRANSLATION

इकाई-1. अनुवाद-परिभाषा, उद्देश्य, महत्व, क्षेत्र, भाषाविज्ञान की अनुप्रयुक्त शाखा के रूप में अनुवाद।

UNIT-I Translation- Definition, Aims and Objectives, Importance, Scope . Translation as An Applied Branch of Linguistics.

इकाई-2. अनुवाद-प्रक्रिया-नाइडा का चिंतन, न्यूमार्क का चिंतन, बाथगेट का चिंतन। पाठ-प्रकार एवं अनुवाद-प्रकार।

UNIT-II Process of Translation- Views of Nida, Newmark, and Bathgate. Types of Text and Types of Translation.

इकाई-3. अनुवाद-कार्य-अनुवादक के गुण, एवं सीमाएँ।

अनुवाद-मूल्यांकन-पद्धतियाँ-शाब्दिक, वाक्यात्मक, आर्थी, सांदर्भिक। अच्छे अनुवादक की विशेषताएँ।

UNIT-III Translation-Work- The Translator- His Ability and Limitations, Translating- Evaluation-Methods- Lexical, Syntactic, Semantic, Contextual, Qualities of a Good Translation.

इकाई-4. अँगरेजी-गद्यांश का हिंदी-अनुवाद


अथवा छत्तीसगढ़ी-गद्यांश का हिंदी-अनुवाद।

UNIT-IV Translation of an English Passage into Hindi OR Translation of a Chhattisgarhi Passage into Hindi.

इकाई-5. हिंदी-गद्यांश का अँगरेजी- अनुवाद।

अथवा हिंदी-गद्यांश का छत्तीसगढ़ी अनुवाद।

UNIT-V Translation of a Hindi Passage into English OR Translation of a Hindi Passage into Chhattisgarhi.

  
24-09-2018

### Books Prescribed

1. अनुवाद सिद्धांत की रूपरेखा : सुरेश कुमार
2. अनुवाद-कला सिद्धांत और प्रयोग : कैलाश चंद्र भाटिया
3. अनुवाद-सिद्धांत और समस्याएँ : रवींद्रनाथ श्रीवास्तव एवं गोस्वामी
4. अनुवाद विज्ञान : भोलानाथ तिवारी
5. अनुवाद-कला और समस्याएँ : वैज्ञानिक अनुसंधान और सांस्कृतिक मंत्रालय, भारत
6. भारतीय भाषाओं से अनुवाद की समस्याएँ : भोलानाथ तिवारी एवं किरणबाला

### सेमेस्टर-IV प्रश्नपत्र-XIV विकल्प (A)

### SEMESTER - IV PAPER - XIV OPTION (A)

संप्रेषणपरक हिंदी

### COMMUNICATIVE HINDI

इकाई-1 संप्रेषण- परिभाषा, प्रक्रिया, विस्तार। संप्रेषण-क्षमता के विकास में भाषाविज्ञान की भूमिका।

UNIT-I Communication- Definition, Process, Scope, Role of Linguistics in Improving Communicative Competence.

इकाई-2 हिंदी में वार्तालाप- वक्ता, श्रोता, विषय-वस्तुए भाषा, स्थिति-संदर्भ, भूमिका-परिवर्तन, शिष्टाचार एवं तकियाकलाम।

UNIT-II Conversation in Hindi-Speaker, Hearer, Subject -Matter, Language, Context of Situation, Role- Shift, Manner, and Mannerism.


इकाई-3 निर्देशक तत्त्व- पुरुषवाचक सर्वनाम, संकेतवाचक सर्वनाम, कालवाचक एवं स्थानवाचक क्रियाविशेषण, काल एवं पक्ष। अन्विति (कर्ता-क्रिया, कर्म-क्रिया, शून्य)।

UNIT-III Diexis- Personal Pronouns, Demonstrative, Pronouns, Adverbs of Time and Place, Tense and Aspect. Concord (Subject-Verb, Object-Verb, None), Voices (Active-Passive), Speech (Direct-Indirect)

इकाई-4 परसर्ग-प्रयोग- सरल, सामासिक, मिश्र, कृदंत- क्रिया, विशेषण, संज्ञा, एवं क्रियाविशेषण के रूप में प्रयोग।

UNIT-IV Postpositions and Their Uses- Simple, Compound, Complex. Participles Used as Verbs, Adjectives, Nouns, and Adverbs.

इकाई-5 पर्यायवाची शब्दों का विशिष्ट प्रयोग, मुहावरों एवं लोकोक्तियों का प्रयोग।

  
24-09-2018



UNIT-V Specific Uses of Synonymous Words, Use of Idioms and Proverbs.

निर्धारित पुस्तकें

Books Prescribed

1. मानक हिंदी का शुद्धिपरक व्याकरण : रमेश चंद्र महरोत्रा
2. मानक हिंदी में शुद्ध प्रयोग : रमेश चंद्र महरोत्रा
3. हिंदी परसर्ग : चित्तरंजन कर

सेमेस्टर-IV प्रश्नपत्र-XIV विकल्प (B)

**SEMESTER - IV PAPER - XIV OPTION (B)**

**COMMUNICATIVE ENGLISH**

UNIT-I Communication- Definition, Process, Scope, Role of Linguistics in Improving Communicative Competence.

UNIT-II Conversation in English- Speaker, Hearer, Subject, Matter, Language, Context of Situation, Role-Shift, Manner and Mannerism,

UNIT-III Deixis- Personal Pronouns, Demonstrative Pronouns, Articles, Adverbs of Time and Place, Anaphora.

UNIT-IV Prepositions and Their Uses- With Nouns, Verbs, Adjectives. Prepositions Used As Conjunctions. Concord, Voices- Active- Passive, Speech- Direct-Indirect.

UNIT-IV Use of Synonymous Words With Specific Meaning , Use of Idioms and Proverbs.

Books Prescribed

1. Communicative English : Leech
2. A University Grammar of English : Quirk et al
3. A Reference Grammar of English : R.A.Close

सेमेस्टर-IV प्रश्न पत्र-XV

**SEMESTER - IV PAPER - XV**

छत्तीसगढ़ी

**CHHATTISGARHI**

इकाई-1. छत्तीसगढ़ी की भौगोलिक/भाषिक सीमाएँ, विकास।

*Shashi*  
24.09.18

UNIT-II Chhattisgarhi-Geographical and Historical Background, Origin, Nomenclature, Linguistic Boundaries, Development.

इकाई-2. छत्तीसगढ़ी तथा हिंदी की अन्य बोलियाँ (पूर्वी एवं पश्चिमी हिंदी के विशेष संदर्भ में), छत्तीसगढ़ी की उपबोलियाँ।

UNIT-II Chhattisgarhi and Other Dialects of Hindi. (with Special Feature of Eastern and Western Hindi), Sub Dialects of Chhattisgarhi.

इकाई-3. छत्तीसगढ़ी की ध्वनियाँ-स्वर, व्यंजन, संध्यक्षर।

UNIT-III Sound of Chhattisgarhi - Vowels, Consonants, and Diphthongs.

इकाई-4. छत्तीसगढ़ी की व्याकरणिक कोटियाँ- पुरुष, लिंग, वचन, कारक, काल, पक्ष, वृत्ति, वाच्य।

UNIT-IV Grammatical Categories of Chhattisgarhi- Person, Gender, Number, Case, Tense, Aspect, Mood, Voice.

इकाई-5. छत्तीसगढ़ी- शब्द-संपदा- तत्सम, तद्भव, आगत, संकर । शब्द-रचना-सरल, यौगिक, मिश्र । शब्द-भेद ।

UNIT-IV Chhattisgarhi Vocabulary- Tatsam, Tadbhav, Borrowed, Hybrid. Word-Formation- Simple, Compound, Complex. Parts of Speech. निर्धारित पुस्तकें

Books Prescribed


1. छत्तीसगढ़ी भाषा का उद्विकास : नरेन्द्र वर्मा
2. छत्तीसगढ़ी, हलबी, भतरी बोलियों का भाषावैज्ञानिक अध्ययन : भालचंद्र राव
3. हिंदी और उसकी विविध बोलियाँ : दीपचंद्र जैन
4. छत्तीसगढ़ी की व्याकरणिक कोटियाँ : चित्त रंजन कर
5. छत्तीसगढ़ी बोली, व्याकरण और कोष : कांतिकुमार जैन

सेमेस्टर-XIV प्रश्न पत्र-XVI

प्रोक्ति-विश्लेषण

**DISCOURSE-ANALYSIS**

1. प्रोक्ति : प्रोक्ति की अवधारणा एवं प्रकृति, प्रोक्ति के विभिन्न पर्याय ।  
Discourse : Concept & Nature of Discourse,  
Different Terms for Discourse.
2. प्रोक्ति-प्रकार : मौखिक, लिखित, वार्तालाप, साहित्यिक, एकालाप ।

  
24-09-2018

Discourse-Types : Oral, Written, Conversation, Literary, Monologue.

3. प्रोक्ति-संरचना : थीम-संरचना, टॉपिक-संरचना, वाक्य-संरचना में प्रोक्तिमूलक तत्व, प्रोक्ति-चिह्नक ।

Discourse-Structure : Theme Structure, Topic-Structure, Discourse Elements in Sentence-Structure, Discourse-Markers.

4. प्रोक्ति से संबंधित अन्य संकल्पनाएँ : प्रोक्ति और संदर्भ, प्रोक्ति और शैली, प्रोक्ति और विषय-वस्तु

Discourse Related Concepts : Discourse and Context, Discourse and Style, Discourse and Subject-Matter.

5 संसक्ति : वाक्यगत, अर्थगत, एवं संदर्भगत संसक्ति ।

Cohesion : Syntactic, Semantic and Contextual Cohesion.

निर्धारित पुस्तकें Books Prescribed

1. Gillian Brawn & George Yule - Discourse-Analysis, Cambridge.

2. Michael Stubbs - Discourse-Analysis, Basil Blackwell, Oxford

3. भोलानाथ तिवारी : भाषाविज्ञान, किताब महल

5. M.A.K. Halliday & Ruqaiya Hasan - Cohesion in English, Longman,

Deborah Schiffrin - Discourse Markers, Cambridge.

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| प्रश्न पत्र प्रश्न-पत्र का नाम<br>सैद्धांतिक आंतरिक पूर्णांक<br>Paper Title of the<br>Paper | Theory | Internal | M.M. |
|---------------------------------------------------------------------------------------------|--------|----------|------|
|                                                                                             |        |          |      |
|                                                                                             |        |          |      |
|                                                                                             |        |          |      |
|                                                                                             |        |          |      |

*Shweta*  
24-09-2018

| प्रश्न पत्र | प्रश्न-पत्र का नाम<br>Paper Title of the Paper                                                                  | Theory | Internal | M.M |
|-------------|-----------------------------------------------------------------------------------------------------------------|--------|----------|-----|
| 1           | भाषाविज्ञान का परिचय एवं भारतीय भाषाचिंतन परंपरा<br>Introduction to Linguistics and Indian Linguistic Tradition | 80     | 20       | 100 |
| 2           | भाषा की प्रयोजनीयता<br>Functionality of Language                                                                | 80     | 20       | 100 |
| 3           | ध्वनिकी एवं ध्वनिमी-Phonetics and Phonemics                                                                     | 80     | 20       | 100 |
| 4           | रूपविज्ञान- Morphology-I                                                                                        | 80     | 20       | 100 |

एम. ए. पूर्व भाषाविज्ञान  
**M.A. PREVIOUS LINGUISTICS**

| प्रश्न पत्र<br>Paper | प्रश्न-पत्र का नाम<br>Title of the paper                                                                         | पूर्णांक<br>M.M. |
|----------------------|------------------------------------------------------------------------------------------------------------------|------------------|
| 1                    | भाषाविज्ञान का परिचय एवं भारतीय भाषा चिंतन परंपरा<br>Introduction to Linguistics and Indian Linguistic Tradition | 100              |
| 2                    | Functionality of Language                                                                                        | 100              |
| 3                    | भाषा की प्रयोजनीयता ध्वनिकी एवं ध्वनिमी Phonetics and Phonemics                                                  | 100              |
| 4                    | रूपविज्ञान Morphology                                                                                            | 100              |
| 5                    | अर्थविज्ञान Semantics                                                                                            | 100              |

*Sheel Sheel*  
24-09-2018

एम.ए. पूर्व भाषाविज्ञान

M.A. PREVIOUS LINGUISTICS

| प्रश्न पत्र<br>Paper | प्रश्न पत्र का नाम<br>title of the paper                                                                        | पूर्णांक<br>m.m. |
|----------------------|-----------------------------------------------------------------------------------------------------------------|------------------|
| 1.                   | भाषाविज्ञान का परिचय एवं भारतीय भाषाचिंतन परंपरा<br>Introduction to Linguistics and Indian Linguistic Tradition | 100              |
| 2.                   | भाषा की प्रयोजनीयता Functionality of Language                                                                   | 100              |
| 3.                   | ध्वनिकी एवं ध्वनिमी Phonetics and Phonemics                                                                     | 100              |
| 4.                   | रूपविज्ञान Morphology                                                                                           | 100              |
| 5.                   | अर्थविज्ञान Semantics                                                                                           | 100              |

एम.ए. पूर्व भाषाविज्ञान

M.A. PREVIOUS LINGUISTICS

प्रश्न पत्र paper - 1

भाषाविज्ञान का परिचय एवं भारतीय भाषाचिंतन परंपरा

Introduction to Linguistics and Indian Linguistic Tradition

- इकाई-1 भाषा-परिभाषा एवं विशेषताएँ, भाषा के अवयव-ध्वनि, रूप, शब्द, पदबंध, उपवाक्य, वाक्य, अर्थ ।  
UNIT-I Language - Definition and Characteristics, Constituents of Language - Sound, Morph, Word, Phrase, Clause, Sentence, Meaning.
- इकाई-2 मानव-भाषा एवं मानवेतर भाषा, मौखिक एवं लिखित भाषा, भाषा और बोली, बोली के भाषा बनने के कारण, भाषाई परिवर्तन के कारण एवं दिशाएँ ।  
UNIT-II Human Language and Non - human Language, Oral and Written Language, Language and Sialect, Factors causing a dialect to be a language, Factors causing Language Change and Directions of change.
- इकाई-3 भाषाविज्ञान- परिभाषा, प्रकृति, भाषा-अध्ययन की विभिन्न पद्धतियाँ-वर्णनात्मक, तुलनात्मक, ऐतिहासिक, व्यतिरेकी ।  
UNIT-III Linguistics- Definition, Nature, Various Methods of Linguistic study - Descriptive, Comparative, Historical, Contrastive.
- इकाई-4 भाषाविज्ञान की शाखाएँ-ध्वनिविज्ञान, ध्वनिप्रक्रिया, रूपविज्ञान, वाक्यविज्ञान, अर्थविज्ञान, समाजभाषाविज्ञान, भाषाभूगोल, शैलीविज्ञान, अनुवादविज्ञान, मनोभाषाविज्ञान, भाषाशिक्षण । अन्य विज्ञानों से भाषाविज्ञान का संबंध ।  
UNIT-IV Branches of Linguistics - Phonetics, Phonology, Morphology, Syntax, Semantics, Sociolinguistics, Linguistic Geography Stylistics, Translatology, Psycho - linguistics, Language Teaching, Relation of Linguistics with other Sciences,
- इकाई-5 भारतीय भाषा- चिंतन- परंपरा- वेद, निघंटु । यास्क, पाणिनि, कात्यायन, पतंजलि, कैयट, नागेश, भट्टोजिदीक्षित, हेमचंद्र, आदि का योगदान ।  
UNIT-V Indian Linguistic Tradition - Vedas, Nighantu, Contributions of Yask, Nanini, Katyayan, Patanjali, Kaiyat, Nagesh, Bhattojidiikshit, Hemchndra, etc.

*Shail Shrivastava*  
24-09-2018

निर्धारित पुस्तकें

books prescribed-

1. भाषाविज्ञान एवं भाषाशास्त्र - कपिलनाथ द्विवेदी आपार्य
2. भाषाविज्ञान - भोला नाथ तिवारी
3. भाषाविज्ञान - राजमल बोरा (संपादक)
4. भाषाविज्ञान - सैद्धांतिक चिंतन - रवीन्द्रनाथ श्रीवास्तव
5. भारतीय भाषावैज्ञानिक चिंतन - विद्यानिवास मिश्र
6. सैद्धांतिक भाषाविज्ञान - ल्यंस
7. Theoretical Linguistics- John Lyons
8. Introduction to General Linguistics- Robins
9. Linguistics- David Crystal
10. The study of Language- George Yule

प्रश्नपत्र - II paper- II

भाषा की प्रयोजनीयता

Functionality of Language

इकाई-1 भाषा के प्रयोजन

- I भाषा- प्रयोजन का आशय
- II प्रयोजनमूलक भाषा का स्वरूप, व्याप्ति, एवं महत्व
- III भाषा के विविध रूप- कार्यालयी, जनसंचार साहित्य, विधि, आदि ।

UNIT-I Functions of Language

Meaning of Functions of Language, Nature, Scope and Importance of Functional Language, Different Forms of language- Official, Media, Literature, Law, etc.

इकाई-2 भाषा और कंप्यूटर

1. कंप्यूटर : परिचय एवं उपयोग
2. इंटरनेट-परिचय
3. वेबसाइट
4. हिंदी/अंगरेजी सॉफ्टवेयर के पैकेज

UNIT-II Language and Computer

Computer - Introduction and use  
Internet - Introduction.  
Website, Hindi/English Software and Packages

इकाई-3 जनसंचार- की भाषा

अ - पत्रकारिता

1. पत्रकारिता : स्वरूप एवं प्रकार
2. समाचार - लेखन
3. साक्षात्कार, पत्रकार- वार्ता
4. विज्ञापन  
आकाशवाणी, दूरदर्शन की भाषाकी प्रकृति,

Sheel Shama  
24/09/18

**UNIT-III Language and media**

Journalism- Nature and Types, News Writing, Editing as an art, Interview, Press- Conference, Advertisement, Language of Radio and Television

**इकाई-4 पारिभाषिक शब्दावली**

1. स्वरूप एवं महत्व
2. पारिभाषिक शब्दावली- निर्माण के सिद्धांत
3. ज्ञान-विज्ञान के विभिन्न क्षेत्रों की पारिभाषिक शब्दावली (केवल निर्धारित शब्द)

**UNIT-IV Technical Terminology**

Nature and Importance, Principles of Formation of Technical Terms, Technical Terms of Various disciplines of Science and Humanities, (prescribed terms only)

**इकाई-5 संक्षिप्तियाँ एवं पदनाम**

1. प्रकृति महत्व एवं सीमाएँ
2. संक्षिप्त के सिद्धांत
3. विभिन्न विषयों में प्रचलित संक्षिप्तियाँ
4. महत्वपूर्ण पद नाम

**UNIT-V Abbreviations and Designations**

Nature, Importance and Limitation

Principles of Abbreviations

Abbreviations used in different disciplines

Important Designations

**निर्धारित पुस्तकें**

**Books Prescribed-**

1. प्रयोजनमूलक हिंदी- बालेंदु शेखर तिवारी
2. प्रयोजनमूलक हिंदी- दंगल झाल्टे
3. प्रयोजनमूलक हिंदी- सूर्यप्रसाद दीक्षित एवं अन्य
4. जनसंचार माध्यमों में हिंदी- चंद्रकुमार
5. दूरदर्शन हिंदी के प्रयोजनमूलक विविध प्रयोग- कृष्णकुमार रतू
6. कंप्यूटर के भाषिक अनुप्रयोग- विजय मल्होत्रा
7. हिंदी कंप्यूटिंग- त्रिभुवन नाथ शुक्ल
8. प्रयोजनमूलक हिंदी- चित्तरंजनकर एवं सुधीर शर्मा
9. कार्यालयी हिंदी- केशरी लाल वर्मा
10. A Communicative Grammar of English : Leech, Geoffrey

**प्रश्नपत्र - III paper- III**

**ध्वनिकी एवं ध्वनिमी**

**Phonetics and Phonemics**

**इकाई-1 ध्वनिकी (ध्वनिविज्ञान)- प्रकृति एवं व्याप्ति, भाषाविज्ञान की अन्य शाखाओं से संबंध, ध्वनिकी की शाखाएँ- उच्चारण, संवहन, एवं श्रवण । ध्वनिकी एवं ध्वनिमी में अंतर ।**

**UNIT-I Phonetics- Nature and Scope, Relation with other branches of linguistics, Branches of Phonetics- Articulatory, Acoustic and Auditory.**

*Shardha*  
24-09-2018

Differences between Phonetics and Phonology.

इकाई-2 वागवयवों का परिचय तथा ध्वनि-उच्चारण में उनकी भूमिका।

UNIT-II Introduction to Organs of Speech and their role in production of sounds.

इकाई-3 वाग्ध्वनियों का वर्गीकरण- स्वर एवं व्यंजन, स्वरों एवं व्यंजनों की सामान्य विशेषताएँ, स्वर एवं व्यंजन में समानताएँ एवं असमानताएँ।

UNIT-III Classification of Speech Sounds- Vowels and Consonants, General Characteristics of Vowels and Consonants, Similarities and differences between Vowels and Consonants;

इकाई-4 स्वरों का वर्गीकरण- जीभ की ऊँचाई, जीभ का भाग, होंठों की स्थिति, कोमल तालु की स्थिति, मांसपेशियों की स्थिति, दीर्घता के आधार पर। व्यंजनों का वर्गीकरण- स्थान एवं प्रयत्न, प्राणत्व, तथा घोषत्व के आधार पर।

UNIT-IV Classification of Vowels- On the basis of tongue height, parts of tongue, position of soft palate, position of muscles, Length. Classification of Consonants- On the basis of places and manners of articulation, aspiration and voicing.

इकाई-5 अक्षर- परिभाषा एवं विशेषताएँ, हिंदी / अँग्रेजी की आक्षरिक संरचना। दीर्घता, बलाघात, सुर, तान, अनुतान (हिंदी/अँग्रेजी के उदाहरण)।

UNIT-V Syllable- Definition & characteristics, Syllabic Structure of Hindi / English, Length, stress, pitch, tone, Intonation. (Examples of Hindi / English)

#### निर्धारित पुस्तकें

##### Books Prescribed

- |                                                        |   |                     |
|--------------------------------------------------------|---|---------------------|
| 1. हिंदी ध्वनिकी और ध्वनिमी                            | : | रमेश चंद्र महरोत्रा |
| 2. ध्वनिविज्ञान                                        | : | गोलोक बिहारी धल     |
| 3. स्वनविज्ञान                                         | : | चतुर्भुज साहाय      |
| 4. हिंदी भाषा की ध्वनि संरचना                          | : | भोलानाथ तिवारी      |
| 5. A Practical Introduction to Phonetics               | : | Catford             |
| 6. A Textbook of English Phonetics for Indian Students | : | T. Balasubramanian  |

#### प्रश्नपत्र - IV paper- IV

#### रूपविज्ञान

#### Morphology

इकाई-1 रूपविज्ञान- प्रकृति एवं क्षेत्र, शाखाएँ शब्द-साधन तथा रूप-साधन।

UNIT-I Morphology- Nature and Scope, Branches, Derivational and Inflectional.

इकाई-2 रूप, संरूप, एवं रूपिम-परिभाषाएँ एवं अंतर।

UNIT-II Morphs, Allomorphs and Morpheme- Definition and Differences.

इकाई-3 रूपिमिक विश्लेषण के सिद्धांत एवं प्रयोग।

UNIT-III Principles and Practices of Morphemic Analysis

इकाई-4 रूपवर्ग एवं शब्द वर्ग। शब्दों की सोपानक्रमिक संरचना।

UNIT-IV Form- Classes and Word- Classes, Hierarchical structure of words.

इकाई-5 संज्ञा, सर्वनाम, विशेषण, एवं क्रिया शब्दों का रूप-साधन।

UNIT-V Inflection of Nouns, Pronouns, Adjectives, Verbs.

#### निर्धारित पुस्तकें

##### Books Prescribed

- |                           |   |                   |
|---------------------------|---|-------------------|
| 1. भाषाविज्ञान की रूपरेखा | : | उदय नारायण तिवारी |
|---------------------------|---|-------------------|

एम.ए. - भाषाविज्ञान-वार्षिक परीक्षा

(94)

*ShailShree*  
24-09-2018



- |    |                                      |   |                |
|----|--------------------------------------|---|----------------|
| 2. | हिंदी का रूपग्रामिक अध्ययन           | : | महावीर सरन जैन |
| 3. | हिंदी भाषा की रूप संरचना             | : | भोलानाथ तिवारी |
| 4. | Grammar                              | : | F. Palmer      |
| 5. | Introduction to Linguistic Structure | : | A Hill         |

प्रश्नपत्र - V paper- V

अर्थविज्ञान

Semantics

इकाई-1 अर्थविज्ञान का क्षेत्र, अर्थविज्ञान और भाषाविज्ञान की अन्य शाखाएँ

UNIT-I Scope of Semantics, Semantics and other Branches of Linguistics.

इकाई-2 अर्थ-प्रकार-समानार्थकता, विलोमार्थकता, अनेकार्थकता, समनामता भाषिक अर्थ एवं संदर्भगत अर्थ में अंतर, अभिधा, लक्षणा, व्यंजना ।

UNIT-II Meaning - types: Synonymy, Antonymy, Polysemy, Homonymy, Difference between Linguistic Meaning and Contextual Meaning, Abhidha (Literal), Lakshana (idiomatic) Vyanjana (Suggestive).

इकाई-3 भारतीय एवं पाश्चात्य अर्थ चिंतन-परंपरा, अर्थ का निर्धारण, अर्थ- निर्धारण में संदर्भ की भूमिका ।

UNIT-III Indian and Western tradition of Semantics, Determination of meaning, Role of context in determination of meaning.

इकाई-4 अर्थपरिवर्तन के कारण- ऐतिहासिक, राजनैतिक, साहित्यिक, सामाजिक, धार्मिक, भौगोलिक । अर्थपरिवर्तन की दिशाएँ- विस्तार, संकोच, आदेश ।

UNIT-IV Causes of semantic change- historical, political, literary, social, religious, geographical, Directions of semantic change- extension, contraction, suppletion.

इकाई-5 वाक्यविज्ञान एवं अर्थविज्ञान, प्रोक्ति, संज्ञा एवं क्रिया का आर्थी अभिलक्षण ।

UNIT-V Syntax and semantics, Discourse, Semantic features of nouns, verbs.

निर्धारित पुस्तकें

Books Prescribed

- |    |                            |   |                 |
|----|----------------------------|---|-----------------|
| 1. | सैद्धांतिक भाषाविज्ञान     | : | लियोस           |
| 2. | हिंदी भाषा की अर्थ- संरचना | : | भोलानाथ तिवारी  |
| 3. | Semantics                  | : | Palmer          |
| 4. | Semantics                  | : | (Vol 1-2) Lyons |

*Sheel Sheel*  
24-09-2018

एम.ए. अंतिम भाषाविज्ञान  
M.A. FINAL LINGUISTICS

| प्रश्न पत्र<br>Paper | प्रश्न पत्र का नाम<br>title of the paper                                                | पूर्णांक<br>m.m. |
|----------------------|-----------------------------------------------------------------------------------------|------------------|
| 6.                   | वाक्यविज्ञान Syntax                                                                     | 100              |
| 7.                   | भाषा एवं समाज Language and Society                                                      | 100              |
| 8.                   | मनोभाषाविज्ञान एवं द्वितीय भाषाशिक्षण<br>Psycholinguistics and Second Language Teaching | 100              |
| 9.                   | क्षेत्र-प्रणाली Field - Method                                                          | 100              |
| 10.                  | (a) अनुवाद Translation अथवा (b) छत्तीसगढ़ी Chhattisgarhi                                | 100              |

षष्ठ प्रश्न-पत्र

वाक्यविज्ञान

( पेपर कोड - 0424 )

इकाई-1 वाक्यविज्ञान और भाषाविज्ञान की अन्य शाखाओं ( ध्वनिविज्ञान, रूपविज्ञान, अर्थ विज्ञान, संकेत- विज्ञान ) में सहसंबंध ।

इकाई-2 वाक्य-संबंधी भारतीय एवं पाश्चात्य मत । वाक्य के अवयव, वाक्य के प्रकार - रचना एवं अर्थ की दृष्टि से ।

इकाई-3 निकटस्थ अवयव-विश्लेषण, अंतःकेंद्रिक एवं बहिःकेंद्रिक रचनाएँ, पदबंध-संरचनात्मक व्याकरण, रूपांतरण परक-प्रजनक व्याकरण ।

इकाई-4 कारक-व्याकरण, संबंधपरक व्याकरण ।

इकाई-5 नियमबद्धता, प्रतिबंध-चयन, रूपांतरण ।

निर्धारित पुस्तकें :

1. आधुनिक भाषाविज्ञान - भोलानाथ तिवारी
2. हिन्दी का वाक्यात्मक व्याकरण - सूरजभान सिंह
3. हिन्दी का नवीनतम बीज-व्याकरण - रमेशचंद्र महरोत्रा एवं चित्तरंजन कर
4. हिन्दी का कारक-व्याकरण - लक्ष्मीबाई बालचन्द्रन
5. हिन्दी भाषा की वाक्य-संरचना - (सं) भोलानाथ तिवारी

PAPER-VI

SYNTAX

UNIT-I Relationship between syntax and other branches of linguistics- Phonetics, Morphology, Semantics, Semiotics.

UNIT-I Indian and Western views on Sentence. Components of Sentence, Types of Sentence- Structurally and Semantically.

UNIT-III Immediate constituent Analysis, Endocentric and Exocentric Constructions, Phrase-Structure Grammar, Transformational- Generative Grammar.

UNIT-IV Case - Grammar, Relational Grammar.

UNIT-V Rule - Government, Restrictions - Selectional and Transformational.

*Sheel Kumar*  
24-09-2018

सप्तम प्रश्न-पत्र  
भाषा एवं समाज  
( पेपर कोड - 0425 )

- इकाई-1 भाषा और समाज, सामाजिकीकरण, भाषा-समुदाय एवं वाग्व्यवहार, भाषा एवं संस्कृति ।  
इकाई-2 समाजभाषाविज्ञान एवं भाषा का समाजविज्ञान, सामाजिक स्तरीकरण और भाषा ।  
इकाई-3 भाषा एवं राष्ट्र, भाषा-नियोजन, राष्ट्रभाषा, राजभाषा ।  
इकाई-4 भाषाई संपर्क एवं समाजभाषिक परिवर्तन, द्विभाषिकता, बहुभाषिकता, भाषाद्वैत, पिजिन एवं क्रियोल ।  
इकाई-5 रिश्ते-नाते एवं रंगों की शब्दावली ।

निर्धारित पुस्तकें :

1. हिन्दी भाषा का सामाजिक संदर्भ - (सं) रमानाथ सहाय
2. हिन्दी का सामाजिक संदर्भ - रवींद्रनाथ श्रीवास्तव
3. Sociolinguistics - Trudgill

PAPER-VII

LANGUAGE AND SOCIETY

- UNIT-I Language and Society, Socialisation, Linguistic Community and Linguistic Repertoire, Language and Culture.
- UNIT-II Socio-linguistics and Sociology of language, Social Stratification and Language.
- UNIT-III Language and Nation, Language Planning, National Language, Official Language.
- UNIT-IV Language- Contact and Socio Linguistic Change, Bilingualism, Multilingualism, Diglossia Pidgin and Creole.
- UNIT-V Kinship Terms and Colour - terms.

अष्टम प्रश्न-पत्र

मनोभाषाविज्ञान एवं द्वितीय भाषाशिक्षण

( पेपर कोड - 0426 )

- इकाई-1 मनोभाषाविज्ञान-प्रकृति एवं व्याप्ति । भाषा और मानव-मस्तिष्क, भाषा-प्रत्यक्षीकरण का मनोवैज्ञानिक आधार ।  
इकाई-2 उच्चरित शब्द-ज्ञान एवं भाषा-प्रयोग की सामान्य स्थितियाँ ।  
इकाई-3 द्वितीय भाषा-अर्जन, अधिगम एवं शिक्षण, भाषिक पर्यावरण, विकासात्मक परिप्रेक्ष्य ।  
इकाई-4 भाषा-सामर्थ्य एवं भाषा-व्यवहार, भाषा-अवाप्ति के विभिन्न स्तर ।  
इकाई-5 भाषा-शिक्षण का मनोवैज्ञानिक उपागम, अभ्यास, एवं परीक्षण-विधियाँ ।

निर्धारित पुस्तकें :

1. भाषाविज्ञान एवं हिन्दी भाषाशिक्षण की अधुनातन प्रवृत्तियाँ - शिवेन्द्र किशोर वर्मा
2. हिन्दी भाषाशिक्षण - मनोरमा गुप्त
3. अनुप्रयुक्त भाषाविज्ञान - भोलानाथ तिवारी

PAPER-VIII

PSYCHOLINGUISTICS AND SECOND LANGUAGE TEACHING

- UNIT-I Psycholinguistics- Nature and Scope, Language and Human Brain, Psychological basis for language Tealisation.

एम.ए. - भाषाविज्ञान-वार्षिक परीक्षा

(97)

*Shubhan*  
24-09-2018

- UNIT-I Acquisition of Spoken words and common situations of language- Use.  
 UNIT- III Second Language Acquisition, Learning and teaching, Linguistic Environment, Developmental Perspectives.  
 UNIT-IV Linguistic Competence and Linguistics Performance, Different Levels of Language - Acquisition.  
 UNIT-V Psychological Approach to Language Teaching, Language Drill, and Testing Methods.

**नवम प्रश्न-पत्र**  
**क्षेत्र - पद्धति**  
**( पेपर कोड - 0427 )**

- इकाई-1 क्षेत्र-सर्वेक्षण - उद्देश्य, प्रतिचयन, प्रश्नावली, सूचक, सर्वेक्षक, क्षेत्र-सर्वेक्षण की आधार-सामग्री ।  
 इकाई-2 सामग्री संकलन-विधियाँ - प्राथमिक एवं द्वितीयक स्रोत, सूक्ष्म एवं व्यापक लिप्यंकन ।  
 इकाई-3 विश्लेषण - ध्वनिप्रक्रियात्मक, रूपप्रक्रियात्मक, वाक्यप्रक्रियात्मक, एवं अर्थप्रक्रियात्मक ।  
 इकाई-4 आकलन - प्रस्तुति, सारणी, चित्र, ग्राफ, आदि ।  
 इकाई-5 भाषिक मानचित्रावली - विधियाँ एवं प्रकार, महत्व ।

**निर्धारित पुस्तकें :**

- |                                   |   |                   |
|-----------------------------------|---|-------------------|
| 1. भाषा-भूगोल                     | - | कैलाशचंद्र भाटिया |
| 2. शब्द भूगोल                     | - | हीरालाल शुक्ल     |
| 3. भाषा-सर्वेक्षण                 | - | मुरारीलाल उप्रेती |
| 4. छत्तीसगढ़ी जनभाषा              | - | व्यास नारायण दुबे |
| 5. A Course in Modern Linguistics | - | C.F. Hockett      |
| 6. Description Linguistics        | - | H.A. Gleason.     |

**PAPER- IX**  
**FIELD METHOD**

- UNIT-I Field survey - Objective, Sampling, Questionnaire, Informant, Surveyor, Basic Material for field survey.  
 UNIT-I Data-Collection-Methods : Primary and Secondary sources, Narrow and Broad Transcription.  
 UNIT- III Analysis - Phonological, Morphological, Syntactic, and Semantic.  
 UNIT-IV Compilation - Presentation, Tabulation, Diagrams, Graphs etc.  
 UNIT-V Linguistic maps - Methods and Types. Importance.

**दशम प्रश्न-पत्र**  
**विकल्प ( अ )**  
**अनुवाद**  
**( पेपर कोड - 0428 )**

- इकाई-1 अनुवाद की परिभाषा, अनुवाद का उद्देश्य, महत्व और व्यवहार-क्षेत्र, अनुवादक के दोष, अनुवादक की सीमाएँ, सफल अनुवाद, अनुवाद-सिद्धांत ।

  
 24-09-2018

- इकाई-2 अनुवाद-प्रक्रिया - नाइडा का चिंतन, न्यूमार्क का चिंतन, बाथगेट का चिंतन, निष्कर्ष । पाठों के प्रकार, अनुवाद के प्रकार - भाषा-बाह्य-अनुवाद-प्रकार, भाषा-केंद्रित-अनुवाद-प्रकार, गौण-अनुवाद-प्रकार ।
- इकाई-3 अनुवाद-कार्य - अनुवादक के प्रकार, अनुवादक की क्षमताएँ, अनुवादक की भाषा, अनुवाद-मूल्यांकन की विधियाँ-कोशगत, वाक्यविन्यासगत, अर्थगत, संदर्भगत । अनुवाद-शिक्षण - समभाषिक संदर्भ में अनुवाद - शिक्षण, द्विभाषिक संदर्भ में अनुवाद-शिक्षण ।
- इकाई-4 अँगरेजी - गद्यांश का हिन्दी में अनुवाद ।  
अथवा छत्तीसगढ़ी - गद्यांश का हिन्दी में अनुवाद ।
- इकाई-5 हिन्दी - गद्यांश का अँगरेजी में अनुवाद ।  
अथवा हिन्दी - गद्यांश का छत्तीसगढ़ी में अनुवाद ।

निर्धारित पुस्तकें :

- |                                        |   |                                                 |
|----------------------------------------|---|-------------------------------------------------|
| 1. अनुवाद सिद्धांत की रूपरेखा          | : | सुरेश कुमार                                     |
| 2. अनुवाद-कला-सिद्धांत और प्रयोग       | : | कैलाश चंद्र भाटिया                              |
| 3. अनुवाद विज्ञान                      | : | भोलानाथ तिवारी                                  |
| 4. अनुवाद-सिद्धांत और समस्याएँ         | : | रवींद्रनाथ श्रीवास्तव एवं गोस्वामी              |
| 5. अनुवाद-कला और समस्याएँ              | : | वैज्ञानिक अनुसंधान और सांस्कृतिक मंत्रालय, भारत |
| 6. भारतीय भाषाओं से अनुवाद की समस्याएँ | : | भोलानाथ तिवारी एवं किरण बाला                    |

PAPER - X

OPTION - (A)

TRANSLATION

- UNIT-I Translation : Definition, Objective, Importance and Scope, Blemishes and Limitations of Translator.  
Good Translation, Translation Theories.
- UNIT-II Translation Process : Nida's view, Mewmark's view, Bathgate's view, Conclusion.  
Type of Text, Types of Translation, Non-linguistic types of Translation, Linguistic types of Translation, Secondary types of Translation.
- UNIT-III Translation-work - Types of Translator, Abilities of Translator, Language of Translator.  
Translation Evaluation Methods- Lexical, Syntactic, Semantic, Contextual.  
Translation teaching - Monolingual and bilingual contexts.
- UNIT-IV Translation of an English Passage into Hindi. O R  
Translation of a Chhattisgarh Passage into Hindi.
- UNIT-V Translation of a Hindi Passage into English. O R  
Translation of a Hindi Passage into Chhattisgarh.

दशम प्रश्न-पत्र

विकल्प ( ब )

छत्तीसगढ़ी

( पेपर कोड - 0429 )

- इकाई-1 छत्तीसगढ़ी की भौगोलिक / ऐतिहासिक पृष्ठभूमि- उत्पत्ति, नामकरण, भाषिक सीमाएँ एवं विकास ।

एम.ए. - भाषाविज्ञान-वार्षिक परीक्षा

(99)

*Sheela*  
24-09-2018

इकाई-2 छत्तीसगढ़ी तथा हिंदी की अन्य बोलियाँ (पूर्वी हिंदी और पश्चिमी हिंदी के विशेष संदर्भ में), छत्तीसगढ़ी की उपबोलियाँ ।

इकाई-3 छत्तीसगढ़ी की ध्वनियाँ - स्वर, व्यंजन, संध्यक्षर ।

इकाई-4 छत्तीसगढ़ी की व्याकरणिक कोटियाँ - पुरुष, लिंग, वचन, कारक, काल, पक्ष, वृत्ति, वाच्य ।

इकाई-5 छत्तीसगढ़ी की शब्द-संपदा- तत्सम् मूल, आगत, संकर । शब्द-रचना- यौगिक, सामासिक, मिश्र । शब्द-भेद ।

निर्धारित पुस्तकें :

- |                                                            |   |                    |
|------------------------------------------------------------|---|--------------------|
| 1. छत्तीसगढ़ी भाषा का उद्विकास                             | - | नरेन्द्र वर्मा     |
| 2. छत्तीसगढ़ी, हलबी, भतरी बोलियों का भाषा वैज्ञानिक अध्ययन | - | भालचंद्र राव तैलंग |
| 3. हिंदी और उसकी विविध बोलियाँ                             | - | दीपचंद्र जैन       |
| 4. छत्तीसगढ़ी की व्याकरणिक कोटियाँ                         | - | (सं) चित्तरंजनकर   |
| 5. छत्तीसगढ़ी बोली, व्याकरण और कोश                         | - | कांतिकुमार जैन     |
| 6. छत्तीसगढ़ी जनभाषा                                       | - | व्यास नारायण दुबे  |

PAPER-X

OPTION (B)

CHHATTISGARHI

UNIT-I Geographical and Historical Background of Chhattisgarhi - Origin, Nomenclature, Linguistic Boundaries and Development.

UNIT-I Chhattisgarhi and other Dialects of Hindi (with special reference to Eastern and Western Hindi), Sub-dialects of Chhattisgarhi.

UNIT- III Sounds of Chhattisgarhi - Vowels Consonants, and Diphthongs.

UNIT-IV Grammatical categories of Chhattisgarhi - Person, Gender, Number, Case, Tense, Aspect, Mood, Voice.

UNIT-V Vocabulary of Chhattisgarhi - Tatsama, Borrowed, Hybrid, Word-formation - Compound, Complex, Parts of Speech.

*SheelSham*  
24-09-2018

**M A ENGLISH**  
**SYLLABUS**  
**SESSION 2018 -19**

INDEX

**SEMESTER :**

Semester-I and Semester-II

Semester III and Semester-IV

**ANNUAL EXAMINATION:**

M.A. English Previous

M. A English Final

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**M A ENGLISH**  
**SYLLABI OF SEMESTER SYSTEM**

*J. e.*  
*26/4/18*

*P. Inmeja*  
*26.4.18*

*M. Gollu*

*N. R.*  
*26/4/18*



**MA ENGLISH (SEMESTER SYSTEM)2018-19**  
**SCHEME OF MARKS**  
**FIRST SEMESTER**

| Semester               | Paper | Title        | Marks  |              | Total |
|------------------------|-------|--------------|--------|--------------|-------|
|                        |       |              | Theory | Internal     |       |
| I                      | I     | Poetry – I   | 80     | 20           | 100   |
|                        | II    | Drama – I    | 80     | 20           | 100   |
|                        | III   | Prose – I    | 80     | 20           | 100   |
|                        | IV    | Fiction – I  | 80     | 20           | 100   |
|                        |       |              |        | <b>Total</b> |       |
| <b>SECOND SEMESTER</b> |       |              |        |              |       |
| Semester               | Paper | Title        | Marks  |              | Total |
|                        |       |              | Theory | Internal     |       |
| II                     | I     | Poetry – II  | 80     | 20           | 100   |
|                        | II    | Drama – II   | 80     | 20           | 100   |
|                        | III   | Prose – II   | 80     | 20           | 100   |
|                        | IV    | Fiction – II | 80     | 20           | 100   |
|                        |       |              |        | <b>Total</b> |       |

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**M.A. ENGLISH  
SEMESTER - I**

**PAPER - I  
POETRY - I**

Maximum marks 80

- UNIT-I** Annotations from the texts prescribed for detailed study
- UNIT-II-** Chaucer : Prologue to the Canterbury Tales (Detailed)
- UNIT-III - John Donne:** Death Be Not Proud, A Valediction: Forbidding Mourning,  
The Good Morrow, Extasie, The Cannonization (Detailed)  
**William Shakespeare:** Sonnets 1, 18, 26, 54, 55, 60, 116 (Non detailed)  
**Andrew Marvell:** To His Coy Mistress (Non - detailed )
- UNIT-IV-** John Milton : Paradise Lost – Book 1 (Detailed)  
John Dryden : Absalom and Achitophel (Non - detailed )
- UNIT-V-** Alexander Pope : The Rape of the Lock (Detailed Study)  
Thomas Gray: Elegy Written in a Country Churchyard (Detailed)  
Blake : The Tyger, Ah! Sunflower

  
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Shineja  
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**M.A.ENGLISH  
SEMESTER – I  
PAPER - II  
DRAMA - I**

**Maximum marks 80**

- UNIT-I** Annotations from the texts prescribed for detailed study.
- UNIT-II** Christopher Marlowe: Dr. Faustus (Detailed)
- UNIT-III** Ben Jonson: The Alchemist (Non - detailed )  
John Webster: The Duchess of Malfi (Detailed)
- UNIT-IV** William Shakespeare: Hamlet (Non- detailed)  
Macbeth (Detailed)
- UNIT-V** William Shakespeare : King Henry IV- Part I (Non- detailed)  
The Tempest (Detailed)

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*Madhu*

*Shirineja*  
*26/4/18*

**M.A. ENGLISH  
SEMESTER - I  
PAPER - III  
PROSE - I**

Maximum marks 80

- UNIT-I** Annotations from the texts prescribed for detailed study.
- UNIT-II** Francis Bacon: Selected Essays : Of Studies, Of Friendship, Of Truth, Of Beauty  
(All – Detailed)
- UNIT-III** Thomas Browne: Urn Burial (Detailed Study)  
John Milton: Areopagitica (Non - detailed)
- UNIT-IV** Joseph Addison: Sir Roger at Home, Sir Roger at Assizes, Sir Roger at Church  
(All Detailed)  
Richard Steele: Recollections of Childhood, A Day in London, The Spectator Club (Non -detailed)  
Jean Jacques Rousseau: Confessions (Non -detailed)
- UNIT-V** Samuel Johnson : Life of Milton (Non -detailed)  
R. L. Stevenson : Walking Tours, Apology for Idlers, El Dorado  
(All detailed)

*J. C.?*  
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28-4-18

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**M.A. ENGLISH**  
**SEMESTER - I**  
**PAPER - IV**  
**FICTION - I**

**Maximum marks 80**

- UNIT-I** Important Literary Movements - Renaissance to the Modern Age: Renaissance, Reformation, Metaphysical Poetry, Classicism, Neo- Classicism, Romanticism, Development of Novel from Bunyan to the Modern Age.
- UNIT-II** John Bunyan: The Pilgrim's Progress  
Daniel Defoe: Robinson Crusoe
- UNIT-III** Henry Fielding: Joseph Andrews  
Oliver Goldsmith: The Vicar of Wakefield
- UNIT-IV** Sir Walter Scott: Ivanhoe  
Jane Austen: Pride and Prejudice
- UNIT-V** Charles Dickens: Great Expectations  
Thomas Hardy: Tess of the d'urbervilles

  
26/4/18

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**M.A. ENGLISH (2018-19)**  
**SEMESTER II**  
**PAPER-I**  
**POETRY II**

Maximum marks 80

- UNIT-I** Annotations from the texts prescribed for detailed study.
- UNIT-II** William Collins: Ode to Evening (Detailed)  
W. Cowper: The Solitude Of Alexander Selkirk (Non -detailed)
- UNIT-III** William Wordsworth: Tintern Abbey; Ode On Intimations of Immortality (Detailed)  
Samuel Taylor Coleridge: Kubla Khan; Dejection: An Ode (Non Detailed)
- UNIT-IV** P.B. Shelley: Ode to the West Wind, To a Skylark (Non -detailed)  
John Keats: Ode to a Nightingale; Ode on a Grecian Urn, Ode to Autumn (Detailed)
- UNIT-V** Tennyson: Lotus Eaters, Ulysses (Non - detailed)  
Robert Brownin: My Last Duchess ; Prospice, The Last Ride Together (All Detailed)  
Mathew Arnold: The Scholar Gypsy (Non - detailed)

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*Shironeja*  
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*Maalhu*

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**M.A. ENGLISH  
SEMESTER II  
PAPER - II  
DRAMA - II**

**Maximum marks 80**

- UNIT-I**      Annotations from the texts prescribed for detailed study.
- UNIT-II**      William Congreve: The Way of the World (Detailed)  
Oliver Goldsmith: She Stoops to Conquer (Non-detailed).
- UNIT-III**     J. M. Synge: Riders to the Sea (Detailed)  
G. B. Shaw: Saint Joan (Non -detailed)
- UNIT-IV**     T. S. Eliot: Murder in the Cathedral (Detailed)
- UNIT-V**      Henry Ibsen: A Doll's House (Non-detailed)  
Anton Chekov: The Cherry Orchard (Non-detailed)

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**M.A. ENGLISH  
SEMESTER II  
PAPER - III  
PROSE – II**

**Maximum marks 80**

**UNIT-I** Annotations from the texts prescribed for detailed study.

**UNIT-II** Charles Lamb: Dream Children, A Dissertation Upon Roast Pig,  
A Bachelor's Complaint, Christ's Hospital (All Detailed)

William Hazlitt: On Going a Journey, The Indian Jugglers (Non- detailed)

**UNIT-III** Thomas Carlyle: The Hero as Poet, The Hero as Man of Letters (Detailed)  
John Ruskin: Sesame (Non-detailed)

**UNIT-IV** Robert Lynd: Forgetting, The Pleasures of Ignorance (Non -detailed)  
A. G. Gardiner : On Saying Please, On the Rule of the Road (Detailed)

**UNIT-V** Thomas Moore: Utopia (Non-detailed)

Niccolo Machiavelli : The Prince (Non -detailed)

*J. Singh*  
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**M.A. ENGLISH  
SEMESTER II  
PAPER - IV  
FICTION - II**

**Maximum marks 80**

- UNIT-I -** Figures of Speech, Structuralism, Imagism,  
Symbolism, Stream of Consciousness, Science Fiction.
- UNIT-II** James Joyce: A Portrait of the Artist as a Young Man.  
Virginia Woolf: Mrs. Dalloway
- UNIT-III-** D. H. Lawrence: Sons and Lovers  
George Orwell: Animal Farm
- UNIT-IV** Joseph Conrad: Heart of Darkness  
William Golding: Lord of the Flies
- UNIT-V** Chinua Achebe: Anthills of the Savannah  
Bapsi Sidhwa: Ice Candy Man

  
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**RECOMMENDED READING FOR MA ENGLISH (SEMESTER SYSTEM)  
SEMESTER - I  
PAPER - I, POETRY - I**

- Tillyard : Milton
- C.M. Bowra : From Virgil to Milton
- B. Rajan : Paradise Lost and 17<sup>th</sup> Century Reader
- Ifor Ivans : A Short History of English Literature
- Bradley : Oxford Lectures on Poetry
- C.S. Lewis : A Preface to Paradise Lost
- C.T.Thomas : Paradise Lost
- Mark Van Doren : John Dryden.
- Tillotson : On the Poetry of Pope.
- M. Mack : Pope and His Contemporaries

**PAPER - II, DRAMA - I**

- A.C. Bradley : Shakespearean Tragedy
- G. Wilson Knight : The Essential Shakespeare
- Boas : Marlowe
- A.L. Williams Ed. : Twentieth Century Interpretations of the Works of Marlowe.
- Nicoll : Theory of Drama
- F.P. Wilson : The English Drama. Clarendon Press,
- T.B. Tomlinson : A Study of Elizabethan and Jacobean Tragedy .
- Anne Barton : Ben Jonson, Dramatist (Cambridge University. Press.)
- F.H. Marres : The Alchemist. (Cambridge University. Press.)
- P.Weller (series): Hamlet. Macbeth

**PAPER - III, PROSE - I**

- Sukanta Chowdhary : Bacon's Essays
- Corthope : Addison
- Hugh Walker : English Essays and Essayists
- Dobre : English Prose Style
- Smithens : Life of Joseph Addison
- B.Prasad : An Introduction to the Study of Literature

**PAPER - IV, FICTION- I**

- Mellongh Bruce : Representative English Novels
- Barbara Nardy : Moral Art of Dickens
- Beach J. Warren : The Technique of Thomas Hardy
- Edward Wagenknecht : Cavacadet English Novel
- Malcolm Bradburry : The Modern British Novel
- Kettle Arnold : An Introduction to English Novel Vol. I, Vol. II

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**SEMESTER - II**  
**PAPER - I, POETRY - II**

- |                          |                     |   |                                   |
|--------------------------|---------------------|---|-----------------------------------|
| <input type="checkbox"/> | C.M. Bowra          | : | The Romantic Imagination          |
| <input type="checkbox"/> | Walter Jackson Bate | : | From Classes to Romantic          |
| •                        | R.A. Scott James    | : | The making of Literature          |
| •                        | Basil Welley        | : | The Eighteenth Century Background |
| •                        | J. Jacson           | : | Collected Coleridge               |

**PAPER - II, DRAMA - II**

- |                               |   |                                                         |
|-------------------------------|---|---------------------------------------------------------|
| David Green and E.M. Stephens | : | J.M. Synge                                              |
| Lady Gregons                  | : | Our Irish Theatre                                       |
| Nicholas Grene                | : | Synge : A critical study of the plays.                  |
| Raymond W illiams             | : | Drama from Ibsen to Brecht                              |
| A Nicoll                      | : | History of the English Drama 1660 -1900                 |
| Eric, Entley                  | : | Shaw : A Reconsideration                                |
| Martin meisel                 | : | Shaw and the Nineteenth Century Theatre                 |
| Joseph Chian                  | : | T.S. Eliot Poet and Dramatist                           |
| R. David Clark                | : | Twentieth Century Interpretation of Murder in Cathedral |

**PAPER - III, PROSE - II**

- |                 |   |                                       |
|-----------------|---|---------------------------------------|
| Minto           | : | A manual of English Prose Legouis     |
| and Cazamian    | : | A History of English Literature       |
| Compton-Rickett | : | A History of English Literature       |
| Hugh W alker    | : | The Literature of the Victorian Era.] |
| A.C. Benson     | : | Ruskin                                |
| E. Albert       | : | A History of English Literature       |
| B. W illey      | : | Nineteenth Century Study              |

**PAPER - IV, FICTION - II**

- |                           |   |                                                                    |
|---------------------------|---|--------------------------------------------------------------------|
| M.H. Abrams               | : | A glossary of Literar y Terms                                      |
| J.A. Cuddon               | : | Dictionary of Literary Terms and Literary theory                   |
| Karl Fredrick             | : | Joseph Conrad : The three Lives : A Biography                      |
| Cadric W alts             | : | Conrad's Heart of Darkness : A Critical and contextual Discussion. |
| Ian W att                 | : | Conrad in the nineteenth Century                                   |
| David Carroll             | : | Chinua Achebe                                                      |
| Jayafoxm raw              | : | Culture and anarchy in the Novels of Chinua Achebe                 |
| C L Inneo and B lind fors | : | Critical perspective on Chinua Achebe                              |
| R.K. Dhawan               | : | The Novels of Bapsi Sidhwa.                                        |
| P.Ashok:                  | : | A Companion To Literary Forms                                      |

*Jas*  
26/4/18

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**MA ENGLISH (SEMESTER SYSTEM)2018-19**  
**SCHEME OF MARKS**  
**THIRD SEMESTER**

| Semester     | Paper                                     | Title                                                 | Marks  |          | Total      |
|--------------|-------------------------------------------|-------------------------------------------------------|--------|----------|------------|
|              |                                           |                                                       | Theory | Internal |            |
| III          | I                                         | Critical Theory – I                                   | 80     | 20       | 100        |
|              | II                                        | Indian Writing in English – I                         | 80     | 20       | 100        |
|              | III                                       | American Literature – I                               | 80     | 20       | 100        |
|              | Optional papers-<br>IV(A)<br>Or<br>IV (B) | Linguistics – I<br>Or<br>English Language Teaching- I | 80     | 20       | 100        |
|              | V (A)<br>Or<br>V (B)                      | Romanticism – I<br>Or<br>Modernist Literature – I     | 80     | 20       | 100        |
| <b>Total</b> |                                           |                                                       |        |          | <b>500</b> |

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**MA ENGLISH (SEMESTER SYSTEM) 2018-19**  
**SCHEME OF MARKS**  
**FOURTH SEMESTER**

| Semester     | Paper                                     | Title                                                           | Marks  |          | Total      |
|--------------|-------------------------------------------|-----------------------------------------------------------------|--------|----------|------------|
|              |                                           |                                                                 | Theory | Internal |            |
| IV           | I                                         | Critical Theory – II                                            | 80     | 20       | 100        |
|              | II                                        | Indian Writing in English – II                                  | 80     | 20       | 100        |
|              | III                                       | American Literature – II                                        | 80     | 20       | 100        |
|              | Optional papers-<br>IV(A)<br>Or<br>IV (B) | Linguistics – II<br><b>Or</b><br>English Language Teaching - II | 80     | 20       | 100        |
|              | Optional papers<br>V (A)<br>Or<br>V (B)   | Romanticism – II<br><b>Or</b><br>Modernist Literature – I I     | 80     | 20       | 100        |
| <b>Total</b> |                                           |                                                                 |        |          | <b>500</b> |

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*Shimra*  
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**M. A. ENGLISH  
SEMESTER - III  
PAPER - I  
CRITICAL THEORY - I**

**Maximum marks 80**

- UNIT-I** Aristotle – Poetics (Butcher Edition)
- UNIT-II** Longinus – On the Sublime
- UNIT-III** Philip Sidney – An Apologie for Poetrie  
John Dryden - Essay of Dramatick Poesy
- UNIT-IV** William Wordsworth: Preface to the Lyrical Ballads  
Samuel Taylor Coleridge: Biographia Literaria (Ch XIII to XVII)
- UNIT-V** Mathew Arnold: The Study of Poetry, The Function of Criticism

**Note :** There will not be any passage for explanation.

*For*  
*26/4/18*  
*Shreeja*  
*26-4-18*

*Madhu*  
*26/4/18*

**M. A. ENGLISH  
SEMESTER - III  
PAPER - II  
INDIAN WRITING IN ENGLISH- I**

**Maximum marks 80**

**Note:** There will not be any passage for explanation.

**UNIT-I** Sri Aurobindo: Savitri – Book I, Canto I.  
Rabindranath Tagore: Songs 1to 15 from Gitanjali

**UNIT-II** Kamla Das: The Freaks, A Hot Noon in Malabar, The Looking Glass,  
The Sunshine Cat.  
Nissim Ezekiel : Enterprise, Poet Lover and Birdwatcher, Night of the Scorpion.

**UNIT-III** Girish Karnad : Nagamandala  
Vijay Tendulkar: Silence! The Court is in Session

**UNIT-IV** Raja Rao: Kanthapura  
Mulk Raj Anand: Coolie

**UNIT-V** V. S. Naipaul : A House for Mr. Biswas  
Bharti Mukherjee: Jasmine

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**M. A. ENGLISH  
SEMESTER - III  
PAPER - III  
AMERICAN LITERATURE - I**

**Maximum marks 80**

**Note :** There will not be any passage for explanation

- UNIT-I** Walt Whitman: When Lilacs Last in the Dooryard Bloomed  
I Hear America Singing
- UNIT-II** Emily Dickinson: Bring Me the Sunset in a Cup (128),  
The Soul Selects Her Own Society (303)  
Some Keep the Sabbath Going to Church (324)  
There Has Been a Death in the Opposite House (389)
- UNIT-III** Wallace Stevens: Peter Quince at the Clavier  
Of Modern Poetry  
Sunday Morning  
A Postcard from the Volcano
- UNIT-IV** R. W. Emerson: Self Reliance  
Henry David Thoreau: Civil Disobedience
- UNIT-V** Puritanism, Democracy in America, Romanticism in America,  
Indian Thought in Emerson, Thoreau and Whitman, New England Renaissance

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**M. A. ENGLISH**  
**SEMESTER-III**

**PAPER - IV (A) LINGUISTICS - I**

**Maximum marks 80**

**UNIT-I -Language:** Definition, Human Language and its difference with Animal Communication, speech and writing as two manifestations of language, Characteristics of Human Language.

**UNIT-II -Linguistics:** Definition, Objective, Branches Of Linguistics: Phonetics, Phonology, Morphology, Syntax and Semantics. Linguistics and its related disciplines.

**UNIT-III- Phonetics – Definition, Branches:** Articulatory Phonetics, Acoustic Phonetics, Auditory Phonetics.  
The organs of speech and their functions.

**UNIT-IV- Classification of Human Speech Sounds:** Characteristics of Vowels and Consonants, similarities and differences between Vowels and Consonants, Phonetic Symbols (IPA)

**UNIT-V Classification of Vowels:** On the basis of height of the tongue, parts of the tongue, position of soft palate, position of muscles and length.

**Classification of Consonants:** On the basis of place and manner of articulation, aspiration and voicing.

**Sound attributes:** Length, Stress, Pitch, Intonation and Juncture.

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**M. A. ENGLISH  
SEMESTER - III  
PAPER - IV (B)  
ENGLISH LANGUAGE TEACHING - I**

**Maximum marks 80**

**UNIT-I** -What language teaching is about? Distinction between L 1 and L 2,  
Second Language learning and bilingualism, second language versus foreign language learning and acquisition.

**UNIT-I** Language Teaching Theories  
Grammar Translation or Traditional Method  
Direct Method  
Reading Method

**UNIT-III** The Teaching of Segmental Features of English  
The Supra Segmental Features of English

**UNIT-IV** Audio, Visual and Supplementary Aids  
The use of Audio Visual aids in teaching, Aids Supplementary to text Books.

**UNIT-V** Language Teaching: The Construction and use of language tests techniques  
to test the production sound segments, techniques for testing of intonation.

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**M. A. ENGLISH  
SEMESTER – III  
PAPER - V (A)  
ROMANTICISM - I**

**Maximum marks 80**

**UNIT-I** William Wordsworth: Retrospect – Love of Nature leading to Love of Mankind

( lines 1 – 100) From Prelude Book – VIII

**UNIT-II** Samuel Taylor Coleridge: Frost at Midnight, The Rime of the Ancient Mariner

**UNIT-III** John Keats : Endymion (Book I, Lines 1 -24) Hyperion (Book – I)

**UNIT-IV** Byron: The Vision of Judgment

John Keats: From the Letters

(from English Critical Texts edited by Enright and Chickera)

**UNIT-V** Short notes on the aforementioned units

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**M. A. ENGLISH  
SEMESTER - III  
PAPER - V (B)  
MODERNIST LITERATURE - I**

**Maximum marks 80**

**UNIT-I** Annotations from the texts prescribed for detailed study

**UNIT-II** - Gerard Manly Hopkins: The Windhover (Detailed)

Pied Beauty (Detailed)

Felix Randal (Detailed)

William Butler Yeats: The Second Coming, Sailing to Byzantium, Byzantium (Non - detailed)

**UNIT-III** - T.S. Eliot: The Waste Land (First two sermons) (Detailed)

**UNIT-IV** - W . H. Auden: The Shield of Achilles (Detailed),

September 1, 1939 (Detailed)

In Memory of W .B. Yeats (Detailed)

**UNIT-V**- Dylan Thomas: Fern Hill, A Refusal to Mourn the Death (Non -detailed)

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**M. A. ENGLISH (2018-2019)**  
**SEMESTER - IV**  
**PAPER - I**  
**CRITICAL THEORY - II**

**Maximum marks 80**

**UNIT-I - Bharata: Natyashastra (Rasa and Bhava Theory)**  
Anandavardhanacharya : Dhvanyaloka

**UNIT-II -T. S. Eliot: Tradition and the Individual Talent**

**UNIT-III -I. A. Richards: Communication and the Artist, Analysis of a Poem**

**UNIT-IV- Saussure: Nature of Linguistic Sign**  
Michel Foucault: What is an Author?

**UNIT-V - Northrop Fry: The Function of Criticism**  
Elaine Showalter: Feminist Criticism in Wilderness

**Note : There will not be any passage for explanation**

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**M. A. ENGLISH  
SEMESTER - IV  
PAPER - II  
INDIAN WRITING IN ENGLISH - II**

**Maximum marks 80**

**UNIT-I-** R. Parthasarthy: From Exile, From Trial, From Homecoming (from Rough Passage, 1977)  
Jayanta Mahapatra : Indian Summer, A Missing Person, Hunger

**UNIT-II-** N. C. Choudhary: The Autobiography of an Unknown Indian  
Jawaharlal Nehru: The Discovery of India

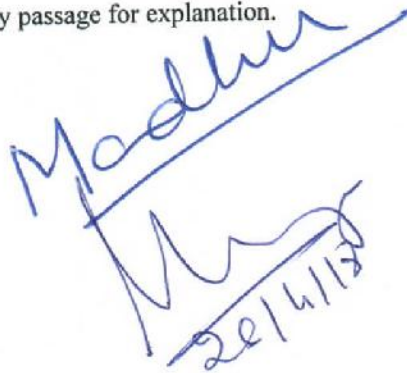
**UNIT-III -** M. K. Gandhi: The Story of My Experiments with Truth  
A.P. J. Kalam: Ignited Minds

**UNIT-IV -** Shashi Deshpande: The Dark Holds No Terror  
Anita Desai: Cry the Peacock

**UNIT-V-** Amitav Ghosh: The Glass Palace  
Arvind Adiga: The White Tiger

**Note :** There will not be any passage for explanation.

  
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**M. A. ENGLISH  
SEMESTER - IV  
PAPER - III  
AMERICAN LITERATURE - II**

**Maximum Marks 80**

- UNIT-I-** Eugene O'Neill: The Emperor Jones  
Tennessee Williams: The Glass Menagerie
- UNIT-II-** Arthur Miller: All My Sons  
Edward Albee: Who is Afraid of Virginia Woolf?
- UNIT III** William Faulkner: The Sound and the Fury  
Ernest Hemingway: The Old Man and the Sea
- UNIT-IV-** Nathaniel Hawthorne: The Scarlet Letter  
Mark Twain: The Adventures of Huckleberry Finn
- UNIT-V-** Expressionism  
Naturalism  
Realism  
Existentialism  
The Theatre of the Absurd

**Note :** There will not be any passage for explanation.

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**M.A. ENGLISH  
SEMESTER IV  
PAPER - IV (A)  
LINGUISTICS - II**

**Maximum marks 80**

**UNIT-I- Phoneme:** Definition, Distinctive features of sounds, Allophones, Classification of English phonemes

**UNIT-II- Morphology:** Morpheme, morph, allomorph, types of morphemes, Word – classes

**UNIT-III -Syntax:** Sentence types – Simple, Compound, Complex; Constituents, Immediate Constituents, IC Analysis;  
Syntactic devices: Word order, Function words and content words, Government, concord.

**UNIT-IV- Semantics:** Semene, Types of meaning: Synonymy, Antonymy, Polysymy, Homonymy, Collocation, Sets.

**UNIT-V - Introduction to Phrase Structure Grammar.  
Limitations to Phrase Structure Grammar**

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**M.A. ENGLISH  
SEMESTER IV  
PAPER - IV (B)  
ENGLISH LANGUAGE TEACHING-II**

**Maximum marks 80**

**UNIT-I** -Trends in Linguistic theories. Beginning of modern linguistics, Language varieties, Aspects of language study – phonology, grammar, lexicology, semantics, Discourses, Bloomfield and American Structuralism. Transformative Generative Grammar.

**UNIT-II** -Language Teaching Theories

The Audio – Lingual Method

The Audio – Visual Method – Features, sources and history, techniques and theoretical assumptions thereof, Cognitive theory.

**UNIT-III** -Teaching the Mechanics of Pronunciation; Vocabulary; Reading and Writing

**UNIT-IV**- Audio – Visual and Supplementary aids Planning for a language laboratory, language laboratory systems, specific advantages provided by language laboratory.

**UNIT-V** -Language Testing: Techniques to test production of lexical units, testing auditory comprehension, how to test speaking ability, achievement, diagnostic and aptitude testing.

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**M.A.ENGLISH  
SEMESTER IV  
PAPER -V (A)  
ROMANTICISM - II**

**Maximum marks 80**

**Note:** There will not be any passage for explanation.

- UNIT-I -** P. B. Shelley: Adonais, Hellas (The world's great age begins anew)
- UNIT-II -** Charles Lamb: Imperfect Sympathies, Valentine's Day  
William Hazlitt: On Actors and Acting (I and II), On Going a Journey
- UNIT-III -** Sir Walter Scott The Bride of Lammermoor  
Jane Austen: Emma
- UNIT-IV -** Shelley: A Defence of Poetry  
M. H. Abrams: Orientation of Critical Theories (From The Mirror and the Lamp)
- UNIT-V** Short notes on the aforementioned units.

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**M.A.ENGLISH  
SEMESTER - IV  
PAPER - V (B)  
MODERNIST LITERATURE - II**

**Maximum marks 80**

**Note :** There will not be any passage for explanation.

**UNIT-I** Samuel Becket : Waiting for Godot

**UNIT-II** John Osborne: Look Back in Anger

**UNIT-III** J. M Coetzee: Disgrace

Doris Lessing: The Grass is Singing

**UNIT-IV** Margaret Atwood: The Edible Woman

**UNIT-V** Edward Said: Orientalism

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## Recommended Reading for Papers of SEMESTER-III and SEMESTER-IV

### CRITICAL THEORY

- Allen Tate : Tension in Poetry
- Trilling, Lionel : "Sense of the Past"
- Richards I.A. "Four Kinds of Meaning"
- Ranson, J.C. "Criticism as Pure Speculation"
- Bodkin, Maud Archetypal PaT
- A.Chaskar: An
- Introduction To Literary Theory &
- Criticism
- M.S.A.Nagrajan : English
- Literary Criticism & Theory

### INDIAN WRITING IN ENGLISH

Ghosh, Aurobindo: Savitri

Radhakrishnan, S.: The Creative Life

Nahal, Chaman: Azadi

Bhattacharya, Bhabani: Dream in Hawaii

Joshi, Arun : The Strange Case of Billy Biswas

Singh, Khuswant : Train to Pakistan

Sahgal, Nayantara : The Day in the Shadow

Venkataramani, K.S. Murugan the Tillar"

Nagarajan, K. : The Chronicles of Kedaram

Desai, Anita : Fire on the Mountain

Jayakrishna Nair : Cutting Edges : Biology of Experience in the Poetry of Kamla Das

### AMERICAN LITERATURE

Emerson, Ralph W : Nature, The Rhodora,

Brahma, The Poet, Hamatroya Hawthorne Nathaniel :

The House of seven Gables

Melville, Herman : Billy- Budd "Bartleby"

Poe, Edgar, Allan : The Fall of the House of

Usher, The Raven

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Lowell, J. Russell : A Fable for Critics

Nanda Dutta : American Literature

Crane Stephen : The Open Boat, The Blue Hotel

James, Henry : The Portrait of a Lady

Draiser, Theodore : Sister Carrie

Howells, William Dean : The Rise of Silas Lapham

Adam, Henry : The Education of Henry Adams

## LINGUISTICS

D. Crystal : Linguistics

S.K. Verma & N. Krishnaswamy : Modern Linguistics : An Introduction

## ENGLISH LANGUAGE TEACHING

Lado, Robert : Language Testing.

Meres A Edmond : A Language Teachers Guide.

Stern, H.H. : Fundamental concepts of Language Teaching

Corder, S. Pit : Introducing Applied Linguistics

Ed. Kinsella, Valerie : Language Teaching and Linguistics : Surveys

Ed Jailing, Hans : Modern Language Teaching

Hayes, A.S. : Language Laboratory Facilities.

Nagaraja, Geetha : English Language Teaching, Orient Longman

Geeta Nagarajan: English Language Teaching Approaches Methods

V.Saraswati: English Language Teaching Principal & Practice

## MODERNIST LITERATURE

Encountering Disgrace: Reading and Teaching Coetzee's Novels- Bill McDonald

Samuel Beckett's Waiting for Godot: A Reference Guide- William Hutchings

Orientalism, Postmodernism, and Globalism- Bryan S. Turner

Postcolonial Theory: Contexts, Practices, Politics- Bart Moore-Gilbert

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## SYLLABUS OF ANNUAL EXAM

### M.A. PREVIOUS ENGLISH Session 2018-19

All Four Papers shall be Compulsory

| Paper | Title   | Total Marks |
|-------|---------|-------------|
| I     | Poetry  | 100         |
| II    | Drama   | 100         |
| III   | Prose   | 100         |
| IV    | Fiction | 100         |
| TOTAL |         | 400         |

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**M.A. PREVIOUS (ENGLISH) 2017-18**  
**PAPER - I**  
**POETRY**  
**(Paper Code - 0301)**

|                  |                     |                                                                                            |         |
|------------------|---------------------|--------------------------------------------------------------------------------------------|---------|
| <b>UNIT-I</b>    | Geoffrey Chaucer    | :Prologue to the Canterbury Tales                                                          | - D     |
|                  | Edmund Spenser      | :Faerie Queen Book-I                                                                       | - ND    |
| <b>UNIT-II</b>   | William Shakespeare | Sonnets : 1, 18, 26, 54, 60, 116                                                           | - ND    |
|                  | John Donne          | Death Be not Proud; Valediction; Forbidden Mourning, Sun rising,<br>Extasie, Canonization- | All D   |
|                  | John Milton         | Paradise Lost, Book I.                                                                     | -D      |
| <b>UNIT-III-</b> | John Dryden         | Absalom and Achitophel                                                                     | -ND     |
|                  | Alexander Pope      | The Rape of the Lock.                                                                      | -D      |
|                  | Thomas Gray         | Elegy W ritten in the Country Church Yard                                                  | -ND     |
| <b>UNIT-IV</b>   | William Wordsworth  | Intimations of Immortality<br>from, Recollections of Early Childhood<br>Tintern Abbey      | - All D |
|                  | S.T. Coleridge      | Ode to Dejection; Kubla Khan                                                               | - ND    |
|                  | P. B. Shelley       | Ode to the West Wind, To Skylark                                                           | - ND    |
|                  | John Keats          | Ode to Autumn, Ode to Nightingale,,Ode on a Grecian Urn                                    | -All D  |
|                  |                     | - All D                                                                                    | - All D |

UNIT-V Alfred Tennyson

Lotus Eaters, Ulysses.

- ND

Robert Browning

My Last Duchess, Prospice ,  
The Last Ride Together,

- All D

Mathew Arnold

The Scholar Gipsy  
Dover Beach  
The Forsaken Merman

- All D

Note : 'D' refers to the texts prescribed for detailed study.  
'ND' refers to the texts described for Non - detailed study.

**Recommended Reading**

1. Tillyard Milton
2. C.M. Bowra From Virgil to Milton
3. B. Rajan Paradise Lost and 17th Century Reader
4. Ifor Ivans A Short History of English Literature
5. Bradley Oxford Lectures on Poetry
- 6.C.S. Lewis A Preface to Paradise Lost
7. Mark Van Doren John Dryden.
8. Tillotson On the Poetry of Pope.
9. M. Mack Pope and His Contemporaries
10. John Batt - Auguston Satire
11. Walter Jackson Bate - From Classes to Romantic
12. R.A. Scott James - The Making of Literature
13. Basil Welley - The Eighteenth Century Background
- 14.J. Jacson -Collected Coleridge
15. C.T.Thomas : Paradise Lost

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**PAPER – II  
(DRAMA)  
(Paper code- 0302)**

|                 |                     |                         |      |
|-----------------|---------------------|-------------------------|------|
| <b>UNIT-I</b>   | Christopher Marlowe | Dr. Faustus             | - D  |
|                 | Ben Jonson          | The Alchemist-          | ND   |
|                 | John Webster        | :The Duchess of Malfi   | - ND |
| <b>UNIT-II</b>  | William Shakespeare | Twelfth Night           | - ND |
|                 |                     | Hamlet                  | - D  |
|                 |                     | Othello                 | - ND |
|                 |                     | The Tempest             | - D  |
| <b>UNIT-III</b> | William Congreve    | The Way of the World    | - ND |
|                 | Oliver Goldsmith    | She Stoops to Conquer   | - ND |
| <b>UNIT- IV</b> | J. M.Synge          | Riders to the Sea       | - ND |
|                 | G.B. Shaw           | Arms and The Man        | - ND |
|                 | T.S. Eliot          | Murder in the Cathedral | - D  |
| <b>UNIT-V</b>   | Henrik Ibsen        | A Doll's House          | - ND |
|                 | Anton Chekhov       | The Cherry Orchard      | ND   |

**Note:**'D' refers to the texts prescribed for detailed study and 'ND' refers to the texts prescribed for Non-detailed study

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**Recommended Reading :**

|                           |                                                           |
|---------------------------|-----------------------------------------------------------|
| A.C. Bradley              | Shakespearean Tragedy                                     |
| G. Wilson                 | The Essential Shakespeare                                 |
| Clough Douglas            | Evil and Suffering in the Play                            |
| A.L. Williams Ed.         | Twentieth Century Interpretations of the Works of Marlowe |
| Bowers Fredmon            | Elizabethan Reverse Tradition                             |
| Nicoll                    | Theory of Drama                                           |
| Styon J.L.                | Modern Drama in Theory and Practice                       |
| David Magersshock-        | The Real Chekhov.                                         |
| P.Weller series): Hamlet. | Macbeth                                                   |

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Macbeth  
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**PAPER III  
PROSE  
(Paper Code- 0303)**

|                 |                       |                                                                                          |         |
|-----------------|-----------------------|------------------------------------------------------------------------------------------|---------|
| <b>UNIT-I</b>   | Francis Bacon         | Of Studies, Of Truth,<br>Of Revenge, Of Friendship                                       | - All D |
|                 | Thomas Browne         | Urn Burial                                                                               | - ND    |
| <b>UNIT-II</b>  | Addison & Steele      | Coverley Papers Essays: 1, 110, 112, 117, 119 - All D                                    |         |
|                 | James Boswell         | Life of Dr. Johnson                                                                      | - ND    |
|                 | Jean Jacques Rousseau | Confessions                                                                              | - ND    |
| <b>UNIT-III</b> | C. Lamb               | Dream Children, Bachelor's Complaint, Christ Hospital<br>A Dissertation Upon Roast Pig.- | All D   |
|                 | W. Hazlitt            | On Going a Journey, Indian Jugglers                                                      | ND      |
| <b>UNIT-IV</b>  | T. Carlyle            | The Hero as Poet                                                                         | D       |
|                 | J. Ruskin             | Sesame                                                                                   | ND      |
| <b>UNIT-V</b>   | Robert Lynd           | Forgetting , The Pleasures of Ignorance                                                  | D A.    |
|                 | A.G. Gardiner         | On Saying Please, On the Rule of the Road                                                | D       |
|                 | Thomas More           | Utopia                                                                                   | ND      |
|                 | Machiavelli           | The Prince                                                                               | ND      |

**Note:**

'D' refers to the texts prescribed for detailed study.  
'ND' refers to the texts prescribed for Non - detailed study

**Recommended Reading**

- |                      |                                              |
|----------------------|----------------------------------------------|
| 1. Sukanta Chowdhary | Bacon's Essays                               |
| 2. Corthope          | Addison                                      |
| 3. Hugh Walker       | English Essays and Essayists                 |
| 4. Dobre             | -English Prose Style                         |
| 5. Smithens          | - Life of Joseph Addison                     |
| 6. B.Prasad          | - An Introduction to the Study of Literature |

**PAPER - IV**  
**FICTION**  
(Paper Code - 0304)

There shall not be any passage for explanation.

|                             |                    |                                                  |
|-----------------------------|--------------------|--------------------------------------------------|
| <b>UNIT-I</b>               | John Bunyan        | The Pilgrim's Progress                           |
|                             | Daniel Defoe       | The Adventures of Robinson Crusoe                |
| <b>UNIT-II</b>              | Richardson         | Pamela (or Virtue Rewarded)                      |
|                             | Henry Fielding     | Joseph Andrews                                   |
|                             | Oliver Goldsmith : | The Vicar of Wakefield.                          |
| <b>UNIT-III</b>             | Sir Walter Scott   | Ivanhoe.                                         |
|                             | Jane Austen        | Pride and Prejudice.                             |
|                             | Charles Dickens    | Great Expectations.                              |
| <b>UNIT-IV</b>              | James Joyce        | A Portrait of the Artist as a Young Man          |
|                             | Virginia Woolf     | Mrs. Dalloway                                    |
|                             | D. H. Lawrence     | Sons and Lovers                                  |
| <b>UNIT-V</b>               | Chinua Achebe      | Anthills of the Savannah                         |
|                             | Bapsi Sidhwa       | Ice Candy Man                                    |
|                             | Yann Martel        | Life of Pi                                       |
| <b>Recommended Reading</b>  |                    |                                                  |
| Mcllough Bruce              |                    | Representative English Novels                    |
| Barbara Nardy               |                    | Moral Art of Dickens                             |
| Beach J. Warren             | -                  | The Technique of Thomas Hardy                    |
| Edward Wagenknecht          | -                  | Cavacadet English Novel                          |
| Malcolm Bradbur y           | -                  | The Modern British Novel                         |
| Kettle Arnold               | -                  | An Introduction to English Novel Vol. I, Vol. II |
| David Caroll                | -                  | Chinua Achebe                                    |
| C.L. Innes and B. Lind fors | -                  | Critical Perspectives on Chi nua Achebe          |
| R.K. Dhawan                 |                    | -The Novels of Bapsi Sidhwa                      |
| P.Ashok:                    |                    | A Companion To Literary Forms                    |

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**MA (FINAL) ENGLISH**  
**Session 2018-19**  
**SCHEME OF MARKS**

| Paper                                     | Title                                          | Total      |
|-------------------------------------------|------------------------------------------------|------------|
| I                                         | Critical Theory                                | 100        |
| II                                        | Indian Writing in English                      | 100        |
| III                                       | American Literature                            | 100        |
| Optional papers-<br>IV(A)<br>Or<br>IV (B) | Linguistics<br>Or<br>English Language Teaching | 100        |
| Optional papers<br>V (A)<br>Or<br>V (B)   | Romanticism<br>Or<br>Modernist Literature      | 100        |
| <b>Total</b>                              |                                                | <b>500</b> |

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**PAPER - I  
CRITICAL THEORY-**

**Paper Code- 0305)**

|                            |                       |                                            |
|----------------------------|-----------------------|--------------------------------------------|
| <b>UNIT-I</b>              | Aristotle             | : Poetics                                  |
|                            | Longinus              | : On the Sublime                           |
| <b>UNIT-II</b>             | Philip Sidney         | An Apologie for Poetrie                    |
|                            | John Dryden           | Essay of Dramatick Poesy                   |
| <b>UNIT-III</b>            | William Wordsworth    | Preface to the Lyrical Ballads             |
|                            | S.T. Coleridge        | Biographia Literaria Ch. I to IV           |
|                            | Mathew Arnold         | The Study of Poetry, Function of Criticism |
| <b>UNIT-IV</b>             | T.S. Eliot            | Tradition and the Individual Talent.       |
|                            | Michael Foucault      | What is an Author?                         |
| <b>UNIT-V</b>              | Ferdinand de Saussure | Nature of the Linguistic Sign              |
|                            | Elaine Showalter      | Feminist Criticism in Wilderness           |
|                            | Northrop Fry          | The Function of Criticism at Present Time  |
| <b>Recommended Reading</b> |                       |                                            |
| 1. Horace                  |                       | The Art of Poetry                          |
| 2. James Henry             |                       | :<br>The Art of Fiction                    |
| 3. Empson, William         |                       | Seven Types of Ambiguity                   |
| 4. William Raymond -       |                       | Politics and Letters                       |
| 5. Richards I.A.           |                       | Tension in Poetry                          |
| 6. Tate Allan              |                       | "Sense of the Past"                        |
| 7. Trilling, Lionel        |                       | :<br>"Criticism as Pure Speculation"       |
| 8. Ranson, J.C.            |                       | :<br>: What is Literature?                 |
| 9. Sartre, Jean- Pau       |                       |                                            |
| 10. Bodkin, Maud           |                       | : Archetypal patterns in poetry            |

**PAPER II**  
**INDIAN WRITING IN ENGLISH**  
**(Paper Code - 0309)**

|                 |                      |   |                                                                           |
|-----------------|----------------------|---|---------------------------------------------------------------------------|
| <b>UNIT-I</b>   | Sri Aurobindo        | : | Savitri – Book I, Canto I                                                 |
|                 | Rabindra.Nath Tagore | : | Gitanjali                                                                 |
|                 | Toru Dutt            | : | Sita, The Lotus, Our Casuarina Tree                                       |
|                 | Sarojini Naidu       | : | Indian Dancers, Love and Death<br>The Old Woman                           |
| <b>UNIT-II</b>  | R. Parthasarthy      |   | From Exile, From Trial<br>From Homecoming                                 |
|                 | Jayanta Mahapatra :  |   | Indian Summer, A Missing Person, The Logic                                |
|                 | Kamla Das            |   | The Freaks, A Hot Noon in Malabar,<br>The Looking Glass, The Sunshine Cat |
|                 | Nissim Ezekiel       |   | Enterprise, Poet, Lover and Birdwatcher,<br>Night of the Scorpion.        |
| <b>UNIT-III</b> | M.K. Gandhi          |   | The Story of My Experiments with Truth.                                   |
|                 | N.C. Choudhari       |   | Autobiography of an Unknown Indian                                        |
|                 | J.L. Nehru           |   | The Discovery of India (Ch. I to Ch. V)                                   |
| <b>UNIT-IV</b>  | Girish Karnad        |   | The Fire and the Rain                                                     |
|                 | V. Tendulkar         |   | Silence! The Court Is in Session                                          |
|                 | Mahesh Dattani       |   | Final Solutions                                                           |
| <b>UNIT-V</b>   | Raja Rao             | : | Kanthapura                                                                |
|                 | R. K. Narayan        |   | The Guide                                                                 |
|                 | Arvind Adiga         | : | The White Tiger                                                           |
|                 | Kiran Desai          | : | The Inheritance of Loss.                                                  |

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**Recommended Reading**

1. Ghosh, Aurobindo : Savitri
2. Radhakrishnan, S. : The Creative Life
3. Nahal, Chaman : Azadi
4. Bhattacharya, Bhabani : Dream in Hawaii
5. Joshi, Arun : The Strange Case of Billy Biswas
6. Singh, Khuswant : Train to Pakistan
7. Jayakrishnan Nair : Cutting Edges : Biology of Experience in the Poetry of Kamla Das
8. Sahgal, Nayantara : The Day in the Shadow
9. Venkataramani, K.S. : "Murugan the Tillar"
10. Nagarajan, K. : The Chronicles of Kedaram
11. Desai, Anita : Fire on the Mountain

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**PAPER III**  
**AMERICAN LITERATURE**  
**(Paper Code- 0310)**

**UNIT-I** Walt Whitman

When Lilacs Last in the Dooryard  
Bloomed, There Was a Child Went Forth.

Emily Dickinson

Success is Counted Sweetest, Hope is the Thing with Feathers..., I Felt a  
Funeral In My Brain, After Great Pain a Formal Feeling Comes.

**UNIT-II** Robert Frost

: Stopping by the Woods..., Birches, Departmental

Sylvia Plath

: Daddy, Lady Lazarus, The Bee Meeting.

**UNIT-III** R.W Emerson

: Self-Reliance

J.J. Thoreau

Civil Disobedience

**UNIT-IV** Eugene O Neil

The Hairy Ape

Tennessee Williams

The Glass Menagerie

Arthur Miller

Death of a Salesman

Edward Albee

Who's Afraid of Virginia Woolf

**UNIT-V** W. Faulkner

The Sound and the Fury

E.Hemingway

: The Old Man and the Sea

N.Hawthorne

: The Scarlet Letter

Mark Twain

: Adventures of Huckleberry Finn

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**Recommended Reading**

Emerson, Ralph W

Nature  
The Rhodora  
Brahma  
The Poet  
Hamatroya

Hawthorne Nathaniel

The House of seven Gables  
My Kinsman, Major Molinerux  
Billy- Budd "Bartleby"

Melville, Herman

The Fall of the House of Usher  
Murder in the Rue Morgue

Poe, Edgar, Allan

The Raven  
The Poetic Principal  
"The philosophy of Composition"

Lowell, James Russell

A Fable for Critics

Crane Stephen

The Open Boat  
The Blue Hotel

James, Henry

The Portrait of a Lady  
The Art of Fiction

Dreiser, Theodore

Sister Carrie

Howels, W illiam  
Dean

The Rise of Silas Lapham

Adams, Henry

The Education of Henry Adams

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**PAPER IV (A) OPTIONAL  
(LINGUISTICS)  
(Paper Code-0311)**

**UNIT-I** What is language? What is Linguistics? Human language and its difference with animal communication. Speech and Writing as two manifestations of language characteristic features of human language duality of patterning (Patterns of sound and patterns of morphemes and words), Creativity, Displacement (difference between context bound animal communication and Context Free Human Language). Redundancy, culture preserving and culture transmitting Features.

**UNIT-II** Linguistics : Aspects, The Branches and Tools. Levels of analysis - phonological, lexical, syntactic and semantic.  
Linguistics : application and related disciplines.

**UNIT-III** Phonetics: Articulatory Phonetics, Auditory Phonetics, Acoustic Phonetics  
The Organs of speech -Places of Articulation.  
Vowels and Consonants, Diphthongs, Clusters and Syllables.  
Supra segmentals and Prosodic Phenomena - Stress, Pitch, Intonation, Juncture, Rhyme.

**UNIT-IV** Phonology  
Structural Linguistics : The Phoneme - Free Variation and neutralization, pattern congruity  
Morphology : Words and morphemes – free morphemes and bound morphemes Allomorphs.

**UNIT-V** Syntax : Word Classes  
I.C. Analysis -: Models of IC analysis  
Introduction to Phrase Structure Grammar – Its Limitations

**Recommended Reading**

1. D. Crystal, Linguistics (Penguin, Harmondsworth, 1971)
2. S.K. Verma and N, Krishnaswamy, Modern Linguistics : A Introduction (Oxford UP 1989)

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**PAPER IV (B) OPTIONAL (ENGLISH  
LANGUAGE TEACHING)**

**(Paper Code-0312)**

**UNIT-I** What Language teaching is about? Distinction between L1 and L2, Second language learning and bilingualism, second language versus foreign language learning and acquisition. Trends in Linguistic theories, Beginning of modern linguistics, Language varieties, Aspect of Language Study – Phonology, Grammar, Lexicology, Semantics, Discourses, Bloomfield and American Structuralism, Transformative Generative Grammar.

**UNIT-II Language Teaching Theories**

- (i) Grammar Translation or traditional method
- (ii) The Direct Method
- (iii) The Reading Method
- (iv) The Audio-Lingual Method
- (v) The Audio-visual Method- Features, Sources and history, techniques and theoretical assumptions thereof.
- (vi) Cognitive Theory

**UNIT-III The Teaching of**

- (i) Segmental features of English
  - (ii) The Supra Segmental features of English
- Teaching the 'Mechanics of**
- A. Pronunciation
  - B. Vocabulary
  - C. Reading and
  - D. Writing

**UNIT-IV Audio-visual and Supplementary Aids**

The use of audio-visual aids in teaching, Aids supplementary to text books Audio- Visual and Supplementary Aids. Planning for language laboratory, Language laboratory systems, Specific advantages provided by language laboratory.

**UNIT-V Language Testing**

The construction and use of language tests, Techniques to test the production of sound segments, techniques for testing of intonation. Techniques to test production of lexical units, Testing auditory comprehensions, How to test speaking ability, achievement, Diagnostic and Aptitude testing.

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**Recommended Reading**

|                            |                                                       |
|----------------------------|-------------------------------------------------------|
| 1. Lado, Robert            | Language Testing.                                     |
| 2. Meras A Edmond          | A Language Teachers Guide.                            |
| 3. Stern, H.H.             | Fundamental concepts of Language Teaching             |
| 4. Corder, S. Pit          | Introducing Applied Linguistics                       |
| 5. Ed. Kinsella, Valerie : | Language Teaching and Linguistics : Surveys.          |
| 6. Ed. Jalling, Hans       | Modern Language Teaching                              |
| 7. Hayes, A.S.             | Language Laborator y Facilities.                      |
| 8. Nagaraj, Geetha         | English Language Teaching, Orient Language Pv t. Ltd. |

  
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**PAPER V (A) OPTIONAL  
(ROMANTICISM)**

|                 |                         |                                                                                                    |
|-----------------|-------------------------|----------------------------------------------------------------------------------------------------|
| <b>UNIT-I</b>   | William Wordsworth      | Retrospect-Love of Nature<br>Leading to Love of Mankind Lines ( 1 - 100)<br>From Prelude Book VIII |
|                 | Samuel Taylor Coleridge | Frost at Midnight, The Rime of the Ancient Mariner                                                 |
| <b>UNIT-II</b>  | P.B. Shelley            | Adonais, Hellas (The world's Great Age Begins a New)                                               |
|                 | John Keats              | Endymion (Book I, Lines 1-24)<br>Hyperion (Book - I)                                               |
| <b>UNIT-III</b> | Byron                   | The Vision of Judgment The Isles (Criticism)                                                       |
|                 | Keats                   | From The Letters (From English<br>Critical Text Edited By Enright & D' Chikrera                    |
| <b>UNIT-IV</b>  | Charles Lamb            | Imperfect Sympathies, Valentines Day South-Sea House                                               |
|                 | W .Hazlitt              | : On Actors and Acting (I and II) on Going a Journey                                               |
| <b>UNIT-V</b>   | Sir W alter Scott       | The Bride of Lammermoor                                                                            |
|                 | Jane Austen             | Emma                                                                                               |
|                 | Shelley                 | A Defense of Poetry                                                                                |
|                 | M.H. Abrams             | Orientation of Critical Theories (From the Mirror and the Lamp)                                    |

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**PAPER V (B) OPTIONAL  
(MODERNIST LITERATURE)**

|                 |                       |                                                                                            |
|-----------------|-----------------------|--------------------------------------------------------------------------------------------|
| <b>UNIT-I</b>   | <b>G.M.Hopkins</b>    | Pied Beauty, Felix Randal<br>The Windhover                                                 |
|                 | W .B. Yeats           | The Second Coming, Sailing to<br>Byzantium, Byzantium                                      |
|                 | T.S. Elliot           | The Waste Land (First two Sermons)                                                         |
| <b>UNIT-II</b>  | <b>W .H. Auden</b>    | : The Shield of Achilles, Sept. 1, 1937, Spain                                             |
|                 | Dylan Thomas          | : Fern Hill, Refusal to Mourn the Death.                                                   |
| <b>UNIT-III</b> | <b>Samuel Beckett</b> | : Waiting for Godot                                                                        |
|                 | John Osborne          | : Look Back in Anger                                                                       |
| <b>UNIT-IV</b>  | <b>Joseph Conrad</b>  | Heart of Darkness                                                                          |
|                 | William Golding       | : Lord of the Flies                                                                        |
| <b>UNIT-V</b>   | <b>I.A. Richards</b>  | Principles of Literary Criticism<br>"Communication and the Artist"<br>"Analysis of a poem" |

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पं. रविशंकर शुक्ल विश्वविद्यालय

रायपुर (छत्तीसगढ़)

पाठ्यक्रम

एम. ए. पूर्व हिन्दी

CODE -111

एम. ए. अंतिम हिन्दी

CODE-112

परीक्षा 2018-19

सेमेस्टर परीक्षा प्रणाली

एवं

वार्षिक परीक्षा प्रणाली



**सत्र 2018-19 एम.ए. हिन्दी अंक विभाजन सेमेस्टर प्रणाली  
प्रथम सेमेस्टर  
अंक विभाजन**

| प्रश्न पत्र                              | बाह्य परीक्षा | आंतरिक मूल्यांकन | कुल अंक |
|------------------------------------------|---------------|------------------|---------|
| प्रथम : (आदिकाल एवं पूर्व मध्यकाल)       | 80            | 20               | 100     |
| द्वितीय : प्राचीन एवं मध्यकालीन काव्य    | 80            | 20               | 100     |
| तृतीय : छायावाद एवं पूर्ववर्ती काव्य     | 80            | 20               | 100     |
| चतुर्थ : नाटक, एकांकी एवं चरितात्मक कृति | 80            | 20               | 100     |
|                                          |               | कुल              | 400 अंक |

**द्वितीय सेमेस्टर  
अंक विभाजन**

| प्रश्न पत्र                             | बाह्य परीक्षा | आंतरिक मूल्यांकन | कुल अंक |
|-----------------------------------------|---------------|------------------|---------|
| पंचम : (उत्तर मध्यकाल एवं आधुनिक काल)   | 80            | 20               | 100     |
| षष्ठ : मध्यकालीन काव्य                  | 80            | 20               | 100     |
| सप्तम : प्रयोगवादी एवं प्रगतिवादी काव्य | 80            | 20               | 100     |
| अष्टम : उपन्यास, निबंध एवं कहानी        | 80            | 20               | 100     |
|                                         |               | कुल              | 400 अंक |

**तृतीय सेमेस्टर  
अंक विभाजन**

| प्रश्न पत्र                                    | बाह्य परीक्षा | आंतरिक मूल्यांकन | कुल अंक |
|------------------------------------------------|---------------|------------------|---------|
| प्रथम : साहित्य के सिद्धांत तथा अलोचना शास्त्र | 80            | 20               | 100     |
| द्वितीय: भाषा विज्ञान                          | 80            | 20               | 100     |
| तृतीय: कामकाजी हिन्दी एवं पत्रकारिता           | 80            | 20               | 100     |
| चतुर्थ : भारतीय साहित्य                        | 80            | 20               | 100     |
|                                                |               | कुल              | 400 अंक |

**चतुर्थ सेमेस्टर  
अंक विभाजन**

| प्रश्न पत्र                                 | बाह्य परीक्षा | आंतरिक मूल्यांकन | कुल अंक |
|---------------------------------------------|---------------|------------------|---------|
| पंचम : हिन्दी आलोचना तथा समीक्षा शास्त्र    | 80            | 20               | 100     |
| षष्ठ : हिन्दी भाषा                          | 80            | 20               | 100     |
| सप्तम : मीडिया लेखन एवं अनुवाद              | 80            | 20               | 100     |
| अष्टम : जनपदीय भाषा और साहित्य (छत्तीसगढ़ी) | 80            | 20               | 100     |
|                                             |               | कुल              | 400 अंक |

टीप:- प्रत्येक प्रश्न पत्र में 20 अंकों के आंतरिक मूल्यांकन के अंतर्गत दो आंतरिक मूल्यांकन का आयोजन अनिवार्य होगा एवं इसका मूल्यांकन विभाग के शिक्षकों के द्वारा किया जावेगा तथा प्राप्तांक विश्वविद्यालय को प्रेषित किया जावेगा ।

एम.ए. - हिन्दी - 2018-19

प्रथम सेमेस्टर

प्रश्न पत्र - प्रथम

आदिकाल एवं पूर्व मध्यकाल

योग : 80

पाठ्य विषय:-

- इकाई-1 आदिकाल -इतिहास दर्शन और साहित्येतिहास  
हिन्दी साहित्य के इतिहास लेखन की परम्परा, साहित्येतिहास के पुनर्लेखन की समस्याएँ ।  
हिन्दी साहित्य के इतिहास का काल-विभाजन और नामकरण, नामकरण की समस्याएँ ।
- इकाई -2 हिन्दी साहित्य के आदिकाल की पृष्ठभूमि, वीरगाथाकाल तथा रासो काव्य, सिद्ध नाथ एवं जैन साहित्य, साहित्यिक प्रवृत्तियाँ, काव्य धाराएँ, प्रतिनिधि रचनाकार ।
- इकाई -3 पूर्व मध्यकाल (भक्ति काल),  
सांस्कृतिक चेतना एवं भक्ति-आंदोलन, भक्ति काल की प्रमुख प्रवृत्तियाँ, काव्य-धाराएँ - निर्गुण, सगुण भक्ति धारा, संत काव्य सामान्य प्रवृत्तियाँ ।
- इकाई-4 सूफी प्रेमाख्यानक काव्य - प्रवृत्तियाँ, प्रेमाख्यानक परम्परा और हिन्दी में उसका विकास ।  
रामभक्ति काव्य, कृष्ण भक्ति काव्य, सामान्य प्रवृत्तियाँ और दार्शनिक विचार धाराएँ, उपलब्धियाँ ।

बाह्य परीक्षा - 80 अंक

1. वैकल्पिक प्रश्न/वस्तुनिष्ठ प्रश्न - 20 प्रश्न - 20 अंक
2. अतिलघुउत्तरीय प्रश्न - 08 प्रश्न - 16 अंक
3. लघुउत्तरीय प्रश्न - 08 प्रश्न - 24 अंक
4. दीर्घउत्तरीय प्रश्न - 4-5 प्रश्न - 20 अंक

आंतरिक मूल्यांकन - 20 अंक

निर्धारित पुस्तकें :-

1. हिन्दी साहित्य का इतिहास (संशोधित - आचार्य रामचंद्र शुक्ल)
2. हिन्दी साहित्य का आदिकाल - हजारी प्रसाद द्विवेदी
3. हिन्दी साहित्य का इतिहास (नेशनल पब्लिशिंग हाऊस, दिल्ली) - डॉ. नगेन्द्र
4. आदिकालीन हिन्दी साहित्य (वाराणसी विश्वविद्यालय प्रकाशन) - डॉ. शम्भूनाथ पाण्डेय
5. आदिकालीन हिन्दी साहित्य सांस्कृतिक पीठिका (हिन्दी ग्रंथ अकादमी) - डॉ. राममूर्ति त्रिपाठी
6. हिन्दी साहित्य का इतिहास - डॉ. बच्चन सिंह

23/06/18

डॉ. अनुपूर्वा आवाल डी.लिड.  
अध्यक्ष  
हिन्दी अध्ययन मंडल  
पं. रविसंकर शुक्ल विश्वविद्यालय  
रायपुर (छत्तीसगढ़) 492 001

प्रथम सेमेस्टर  
प्रश्न पत्र – द्वितीय  
प्राचीन एवं मध्यकालीन काव्य

योग : 80

पाठ्य विषय:-

व्याख्या एवं विवेचन के लिए निम्नांकित तीन कवियों का अध्ययन अपेक्षित है ।

- इकाई 1. चंदबरदाई : पृथ्वीराज रासो, संपादक आचार्य हजारी द्विवेदी, डॉ. नामवर सिंह (शशिवृता विवाह खंड)
- इकाई 2. कबीर ग्रंथावली: संपादक डॉ. श्याम सुंदर दास (100 साखियाँ तथा 25 पद) पद क्रमांक- 11, 16, 24, 26, 27, 40, 45, 49, 60, 64, 70, 72, 75, 79, 89, 93, 99, 100, 101, 103, 110, 111, 135, 268  
साखियाँ- गुरुदेव कौ अंग 1 से 20, सुरिमण कौ अंग 1 से 10, विरह कौ अंग 1 से 10, ग्यान विरह कौ अंग 1 से 10, चितावणी कौ अंग 1 से 10, माया कौ अंग 1 से 5, परचा कौ अंग 1 से 10 ।
- इकाई 3. मलिक मोहम्मद जायसी : पद्मावत संपादक आ. रामचंद्र शुक्ल (नागमति विरह खण्ड एवं सिंहल दीपखण्ड)
- इकाई 4. द्रुत पाठ हेतु निम्नांकित 6 कवियों का एवं उनकी रचनाओं का अध्ययन अनिवार्य है, इन कवियों पर लघुत्तरी प्रश्न पूछे जायेंगे- अमीर खुसरों, विद्यापति, मीराबाई, रहीम, रैदास, रसखान ।

बाह्य परीक्षा – 80 अंक

- |                                      |                       |
|--------------------------------------|-----------------------|
| 1. वैकल्पिक प्रश्न/वस्तुनिष्ठ प्रश्न | - 20 प्रश्न - 20 अंक  |
| 2. अतिलघुउत्तरीय प्रश्न              | - 08 प्रश्न - 16 अंक  |
| 3. लघुउत्तरीय प्रश्न                 | - 08 प्रश्न - 24 अंक  |
| 4. दीर्घउत्तरीय प्रश्न               | - 4-5 प्रश्न - 20 अंक |

आंतरिक मूल्यांकन – 20 अंक

निर्धारित पुस्तकें:-

1. डॉ. विपिन बिहारी द्विवेदी – चंदबरदाई
2. कबीर की विचारधारा – डॉ. गोविन्द त्रिगुणायन
3. प्रमुख प्राचीन कवि – डॉ. द्वारिका प्रसाद सक्सेना
4. कबीर साहित्य की परख – परशुराम चतुर्वेदी
5. जायसी की विशिष्ट शब्दावली – डॉ. इंदिरा कुमारी सिंह का विश्लेषणात्मक अध्ययन
6. मलिक मोहम्मद जायसी और उनका काव्य – डॉ. शिवसहाय पाठक
7. अमीर खुसरों और उनका साहित्य – डॉ. भोलानाथ तिवारी
8. कबीर – सं. हजारी प्रसाद द्विवेदी

एम.ए.पूर्व (हिन्दी) 2018-19

प्रथम सेमेस्टर  
प्रश्न पत्र - तृतीय  
छायावाद एवं पूर्ववर्ती काव्य

कुल : 80

पाठ्य विषय:- व्याख्या एवं विवेचन के लिए निम्नांकित तीन कवियों का अध्ययन अपेक्षित है ।

- इकाई 1 मैथिलीशरण गुप्त - साकेत नवम् सर्ग  
इकाई 2 जयशंकर प्रसाद - कामायनी (चिन्ता, श्रद्धा, इड़ा सर्ग)  
इकाई 3. सूर्यकांत त्रिपाठी निराला - राम की शक्ति पूजा, तुलसीदास (प्रथम 10 छंद)  
इकाई 4. द्रुत पाठ हेतु निम्नांकित 6 कवियों का अध्ययन किया जाएगा ।  
अयोध्या सिंह उपाध्याय- "हरिऔध", हरिवंशराय बच्चन, मुकुटधर पांडेय,  
जगन्नाथ दास रत्नाकर, सुमित्रानंदन पंत, महादेवी वर्मा

बाह्य परीक्षा - 80 अंक

- |                                      |                       |
|--------------------------------------|-----------------------|
| 1. वैकल्पिक प्रश्न/वस्तुनिष्ठ प्रश्न | - 20 प्रश्न - 20 अंक  |
| 2. अतिलघुउत्तरीय प्रश्न              | - 08 प्रश्न - 16 अंक  |
| 3. लघुउत्तरीय प्रश्न                 | - 08 प्रश्न - 24 अंक  |
| 4. दीर्घउत्तरीय प्रश्न               | - 4-5 प्रश्न - 20 अंक |

आंतरिक मूल्यांकन - 20 अंक

निर्धारित पुस्तकें:-

1. साकेत एक अध्ययन- डॉ. नगेन्द्र
2. कवि निराला - आचार्य नंद दुलारे वाजपेयी
3. निराला की साहित्य साधना - डॉ. रामविलास शर्मा
4. नया साहित्य नये साधना - आचार्य नंद दुलारे वाजपेयी
5. कामायनी एक पुनर्विचार - मुक्तिबोध
6. प्रसाद का काव्य - प्रेमशंकर
7. हिन्दी साहित्य आधुनिक परिदृश्य - अज्ञेय
8. हिन्दी साहित्य का इतिहास - नगेन्द्र
9. बच्चन की कविताओं का शैलीवैज्ञानिक अध्ययन - डॉ. शीला शर्मा

एम.ए. - (हिन्दी) - 2018-19

प्रथम सेमेस्टर  
प्रश्न पत्र - चतुर्थ  
आधुनिक गद्य साहित्य  
नाटक, एकांकी एवं रेखाचित्र (साहित्य)

पूर्णांक : 80

पाठ्य विषय :-

|        |        |    |               |   |                     |
|--------|--------|----|---------------|---|---------------------|
| इकाई-1 | नाटक   | 1  | चन्द्रगुप्त   | - | जयशंकर प्रसाद       |
|        |        | 2  | हानूश         | - | भीष्म साहनी         |
| इकाई-2 | एकांकी | 1  | दीपदान        | - | रामकुमार वर्मा      |
|        |        | 2. | एक दिन        | - | लक्ष्मीनारायण मिश्र |
|        |        | 3. | रीढ़ की हड्डी | - | जगदीश चन्द्र माथुर  |
|        |        | 4. | तौलिए         | - | उपेन्द्रनाथ अशक     |
|        |        | 5. | मम्मी ठकुराइन | - | लक्ष्मीनारायण लाल   |

इकाई-3 रेखाचित्र (साहित्य)- अतीत के चलचित्र (महादेवी वर्मा)

बाह्य परीक्षा - 80 अंक

1. वैकल्पिक प्रश्न/वस्तुनिष्ठ प्रश्न - 20 प्रश्न - 20 अंक
2. अतिलघुउत्तरीय प्रश्न - 08 प्रश्न - 16 अंक
3. लघुउत्तरीय प्रश्न - 08 प्रश्न - 24 अंक
4. दीर्घउत्तरीय प्रश्न - 4-5 प्रश्न - 20 अंक

आंतरिक मूल्यांकन - 20 अंक

निर्धारित पुस्तकें:-

1. हिन्दी नाटक उद्भव और विकास - डॉ. दशरथ ओझा
2. हिन्दी नाटक सिद्धांत और विवेचन - डॉ. गिरीश रस्तोगी
3. हिन्दी नाटक पुनर्मूल्यांकन - डॉ. सत्येन्द्र तनेजा
4. समसामयिक हिन्दी नाटकों में चरित्र सृष्टि - डॉ. जयदेव तनेजा
5. प्रसाद के नाटकों का शास्त्रीय अध्ययन - जगन्नाथ प्रसाद शर्मा
6. आधुनिक हिन्दी नाटक - नगेन्द्र
7. नाटक रंगमंच और मोहन राकेश - डॉ. सुरेन्द्र यादव
8. प्रसाद युगीन हिन्दी नाटक - डॉ. भगवती प्रसाद शुक्ल
9. प्रसाद के नाटक एवं नाट्य शिल्प - डॉ. शांति स्वरूप गुप्त
10. नाटककार मोहन राकेश - डॉ. सुन्दर लाल कथूरिया
11. हिन्दी एकांकी : उद्भव और विकास - रामचरण महेन्द्र
12. हिन्दी रंगमंच : दशा और दिशा - जयदेव तनेजा
13. भीष्म साहनी के उपन्यास और नाटक - डॉ. राकेश कुमार तिवारी

**एम.ए. (हिन्दी) – 2018–19**  
**द्वितीय सेमेस्टर**  
**प्रश्न पत्र – पंचम**  
**(उत्तर मध्यकाल से आधुनिक काल तक)**

समय 3 घंटे

पूर्णांक : 80

पाठ्य विषय:—

- इकाई 1— उत्तर मध्यकाल (रीतिकाल)  
काल सीमा, नामकरण, प्रवृत्तियाँ, रीतिकालीन साहित्य की विभिन्न धारायें (रीतिबद्ध, रीतिसिद्ध, रीतिमुक्त) प्रवृत्तियाँ एवं विशेषताएँ । रीतिकाल के प्रतिनिधि रचनाकार एवं रचनाएँ ।
- इकाई 2 आधुनिक काल – आधुनिक काल की सामाजिक, राजनैतिक, आर्थिक एवं सांस्कृतिक पृष्ठभूमि । सन् 1857 की राज्य क्रांति एवं पुनर्जागरण, भारतेन्दु युग— प्रमुख साहित्यकार, साहित्य एवं साहित्यिक विशेषताएँ ।
- इकाई 3 द्विवेदी युग – प्रमुख साहित्यकार एवं साहित्यिक विशेषताएँ, छायावाद— नामकरण और प्रवृत्तियाँ, प्रमुख साहित्यकार, साहित्यिक विशेषताएँ । छायावादोत्तर काल (विभिन्न प्रवृत्तियाँ) प्रगतिवाद, नई कविता, नवगीतवाद तथा समकालीन कविता, स्वच्छन्दतावाद सामान्य परिचय ।
- इकाई 4 हिन्दी गद्य का विकास –  
आधुनिक काल, गद्य साहित्य के विभिन्न रूपों का उद्भव और विकास, उपन्यास व कहानी का विकास और सामान्य प्रवृत्तियाँ, निबंध का विकास और प्रवृत्तियाँ, नाटक का उद्भव और विकास— सामान्य प्रवृत्तियाँ, गीति— नाटकों का परिचयात्मक विवेचन ।

बाह्य परीक्षा – 80 अंक

- |                                      |                       |
|--------------------------------------|-----------------------|
| 1. वैकल्पिक प्रश्न/वस्तुनिष्ठ प्रश्न | – 20 प्रश्न – 20 अंक  |
| 2. अतिलघुउत्तरीय प्रश्न              | – 08 प्रश्न – 16 अंक  |
| 3. लघुउत्तरीय प्रश्न                 | – 08 प्रश्न – 24 अंक  |
| 4. दीर्घउत्तरीय प्रश्न               | – 4-5 प्रश्न – 20 अंक |

आंतरिक मूल्यांकन – 20 अंक

निर्धारित पुस्तकें :-

1. आधुनिक साहित्य की प्रवृत्तियाँ – डॉ. नामवर सिंह
2. हिन्दी साहित्य बीसवीं शताब्दी – नन्ददुलारे वाजपेयी
3. आधुनिक हिन्दी साहित्य का इतिहास – कृष्ण शंकर शुक्ल
4. गद्य की विविध विधाएँ – डॉ. बापूराव देसाई
5. हिन्दी कहानी – उद्भव और विकास – डॉ. सुरेश सिन्हा
6. हिन्दी उपन्यास की प्रवृत्तियाँ – डॉ. शशि भूषण सिंह
7. हिन्दी नाटक उद्भव और विकास – डॉ. दशरथ ओझा
8. हिन्दी साहित्य का इतिहास – आचार्य रामचन्द्र शुक्ल
9. हिन्दी साहित्य का उद्भव और विकास – आचार्य हजारी प्रसाद द्विवेदी
10. हिन्दी साहित्य की भूमिका – आचार्य हजारी प्रसाद द्विवेदी

एम.ए. (हिन्दी) – 2018–19

द्वितीय सेमेस्टर

प्रश्न पत्र – षष्ठ

मध्यकालीन काव्य

समय 3 घंटे

पूर्णांक : 80

पाठ्य विषय:- व्याख्या एवं विवेचन के लिए निम्नांकित तीन कवियों का अध्ययन किया जाएगा

इकाई-1 सूरदास – भ्रमरगीत सार – संपादक आचार्य रामचंद्र शुक्ल (50 पद)

पद संख्या – 1 से 10, 21 से 30, 51 से 60, 61 से 70, 81 से 90 तक (50 पद)

इकाई-2 तुलसीदास – रामचरित मानस (सुंदरकाण्ड) गीताप्रेस गोरखपुर

इकाई-3 बिहारी – बिहारी रत्नाकर संपादक जगन्नाथ दास रत्नाकर (प्रारंभिक 100 दोहे)

इकाई-4 द्रुत पाठ हेतु निम्नांकित 5 कवियों एवं उनकी रचनाओं का (विषय एवं शिल्पगत) ज्ञान अपेक्षित है ।

केशव, भूषण, पद्माकर, देव, घनानंद, कुम्भन दास

बाह्य परीक्षा – 80 अंक

- |                                      |                       |
|--------------------------------------|-----------------------|
| 1. वैकल्पिक प्रश्न/वस्तुनिष्ठ प्रश्न | – 20 प्रश्न – 20 अंक  |
| 2. अतिलघुउत्तरीय प्रश्न              | – 08 प्रश्न – 16 अंक  |
| 3. लघुउत्तरीय प्रश्न                 | – 08 प्रश्न – 24 अंक  |
| 4. दीर्घउत्तरीय प्रश्न               | – 4-5 प्रश्न – 20 अंक |

आंतरिक मूल्यांकन – 20 अंक

निर्धारित पुस्तकें :-

1. बिहारी- डॉ. विश्वनाथ प्रसाद मिश्र
2. तुलसीदास और उनका युग संदर्भ – डॉ. भगीरथ मिश्र
3. सूरदास के काव्य का मूल्यांकन – डॉ. रामरतन भटनागर
4. तुलसी साहित्य के नये संदर्भ – डॉ. एल.एन.दुबे
5. सूरदास – डॉ. हरबंस लाल वर्मा
6. तुलसीदास – प्रो. सतीश कुमार अशोक प्रकाशन नई दिल्ली
7. सूरदास – मैनेजर पाण्डेय

Handwritten signature and date: 23/06/18

डॉ. अनुसुईया अप्पवाल डी.लिद्.,  
अध्यक्ष  
हिन्दी अध्ययन मंडल  
पं. रविशंकर शुक्ल विश्वविद्यालय  
रायपुर (छत्तीसगढ़) 492 001

एम.ए. – (हिन्दी) 2018-19  
द्वितीय सेमेस्टर  
प्रश्न पत्र – सप्तम  
(प्रयोगवादी एवं प्रगतिवादी काव्य)

कुल अंक : 80

पाठ्य विषय-

- इकाई-1 स.ही.वात्स्यायन अज्ञेय- नदी के द्वीप, असाध्यवीणा, बावरा अहेरी, कलगी बाजरे की, यह दीप अकेला, सोन मछली
- इकाई-2 गजानन माधव मुक्तिबोध – कविता – अंधेरे में ।
- इकाई-3 नागार्जुन – बसन्त की अगवानी, कोई आए तुमसे सीखे, शिशिर विष कन्या, तो फिर क्या हुआ, उषा की लाली, गुलाबी चुड़ियाँ, शासन की बंदूक, सिन्दूर तिलकित भाल, अकाल और उसके बाद, बादल को धिरते देखा ।
- इकाई-4 द्रुत पाठ हेतु निम्नांकित 5 कवियों का अध्ययन किया जायेगा ।  
केदारनाथ अग्रवाल, त्रिलोचन शास्त्री, भवानी प्रसाद मिश्र, विनोद कुमार शुक्ल, धूमिल

बाह्य परीक्षा – 80 अंक

- |                                      |                       |
|--------------------------------------|-----------------------|
| 1. वैकल्पिक प्रश्न/वस्तुनिष्ठ प्रश्न | - 20 प्रश्न - 20 अंक  |
| 2. अतिलघुउत्तरीय प्रश्न              | - 08 प्रश्न - 16 अंक  |
| 3. लघुउत्तरीय प्रश्न                 | - 08 प्रश्न - 24 अंक  |
| 4. दीर्घउत्तरीय प्रश्न               | - 4-5 प्रश्न - 20 अंक |

आंतरिक मूल्यांकन – 20 अंक

निर्धारित पुस्तकें :-

1. मुक्तिबोध की काव्य प्रक्रिया – अशोक चक्रधर
2. अज्ञेय का रचना संसार – डॉ. रामस्वरूप चतुर्वेदी
3. कविता की तीसरी आंख – डॉ. प्रभाकर श्रोत्रिय
4. कविता से साक्षात्कार – मलयज
5. हिन्दी साहित्य का इतिहास – डॉ. रामचन्द्र शुक्ल
6. कविता की संगत – विजय कुमार
7. कविता का अर्थात् – परमानंद श्रीवास्तव
8. नागार्जुन का रचना संसार – विजय बहादुर सिंह
9. छायावादोत्तर काव्यों की विभिन्न प्रवृत्तियों एवं उनका चैन्नैनिक पक्ष – डॉ. ज्योति पाण्डेय



एम.ए. – (हिन्दी) – 2018-19

द्वितीय सेमेस्टर

प्रश्न पत्र – अष्टम

आधुनिक गद्य साहित्य

(उपन्यास, निबंध एवं कहानी)

पाठ्य विषय:-

पूर्णांक : 80

|        |          |                      |   |                       |
|--------|----------|----------------------|---|-----------------------|
| इकाई-1 | उपन्यास- | 1 गोदान              | - | प्रेमचंद              |
|        |          | 2 बाणभट्ट की आत्मकथा | - | हजारी प्रसाद द्विवेदी |
| इकाई-2 | निबंध -  | 1 चढ़ती उमर          | - | बालकृष्ण भट्ट         |
|        |          | 2 कविता क्या है?     | - | रामचंद्र शुक्ल        |
|        |          | 3 गेहूँ बनाम गुलाब   | - | रामवृक्ष बेनीपुरी     |
|        |          | 4 तुम चन्दन हम पानी  | - | विद्यानिवास मिश्र     |
|        |          | 5 वैष्णव की फिसलन    | - | हरिशंकर परसाई         |
| इकाई-3 | कहानी -  | 1 उसने कहा था        | - | चन्द्रधर शर्मा गुलेरी |
|        |          | 2 पुरस्कार           | - | जयशंकर प्रसाद         |
|        |          | 3. ईदगाह             | - | प्रेमचंद              |
|        |          | 4. चीफ की दावत       | - | भीष्म साहनी           |
|        |          | 5. बादलों के घेरे    | - | कृष्णा सोवती          |

बाह्य परीक्षा – 80 अंक

1. वैकल्पिक प्रश्न/वस्तुनिष्ठ प्रश्न - 20 प्रश्न - 20 अंक
2. अतिलघुउत्तरीय प्रश्न - 08 प्रश्न - 16 अंक
3. लघुउत्तरीय प्रश्न - 08 प्रश्न - 24 अंक
4. दीर्घउत्तरीय प्रश्न - 4-5 प्रश्न - 20 अंक

आंतरिक मूल्यांकन – 20 अंक

निर्धारित पुस्तकें:-

1. प्रेमचंद और उनका युग - रामविलास शर्मा
2. गोदान के अध्ययन की समस्याएं - डॉ. गोपाल राय
3. कथाकार फणीश्वरनाथ रेणु - चंद्रभाव सोनवती
4. हिन्दी उपन्यास की शिल्पविधि का विकास - सिद्धनाथ तनेजा
5. हिन्दी उपन्यास उद्भव और विकास - सुरेश सिन्हा
6. प्रेमचंद : एक अध्ययन - राजेश्वर गुरु
7. महादेवी प्रतिनिधि गद्य रचनाएं - सं. रामजी पाण्डेय
8. हिन्दी निबंध के आधार स्तम्भ - डॉ. हरिमोहन
9. हिन्दी कहानी : उद्भव और विकास - सुरेश सिन्हा
10. कहानी : स्वरूप और संवेदना - राजेन्द्र यादव
11. कहानी : नयी कहानी - नामवर सिंह
12. हजारी प्रसाद द्विवेदी - सं. विश्वनाथ तिवारी
13. प्रेमचंद का जीवनदर्शन एवं रंगभूमि - डॉ. शंकर बुन्देले

10

डॉ. अनुसुइवा कश्यप डी.लिट्.  
अध्यक्ष  
हिन्दी अध्ययन मंडल  
पं. रविशंकर शुक्ल विश्वविद्यालय  
रायपुर (छत्तीसगढ़) 492 005

एम.ए. – (हिन्दी) 2018–19

तृतीय सेमेस्टर  
प्रश्न पत्र – प्रथम  
साहित्य के सिद्धांत तथा आलोचना शास्त्र

पूर्णांक : 80

पाठ्य विषय:-

- इकाई-1 भारतीय काव्य शास्त्र  
– काव्य लक्षण, काव्य हेतु, काव्य प्रयोजन और काव्य के प्रकार  
– रस सिद्धांत, रस का स्वरूप, रस निष्पत्ति और साधारणीकरण, रस के अंग ।
- इकाई-2 अलंकार सिद्धांत रीति सिद्धांत, वक्रोक्ति सिद्धांत, ध्वनि सिद्धांत और औचित्य सिद्धांत
- इकाई-3 पाश्चात्य काव्य शास्त्र  
प्लेटो – काव्य सिद्धांत  
अरस्तु- अनुकरण का सिद्धांत, विरेचन सिद्धांत, लॉजाइनस-उदात्त की अवधारणा
- इकाई 4 मैथ्यू आर्नल्ड- कला की अवधारणा  
टी.एस. इलियट – कला की निर्वैयक्तिकता, कॉलरिज-कल्पना सिद्धांत  
स्वच्छदतावाद – अभिजात्यवाद

बाह्य परीक्षा – 80 अंक

1. वैकल्पिक प्रश्न/वस्तुनिष्ठ प्रश्न – 20 प्रश्न – 20 अंक
2. अतिलघुउत्तरीय प्रश्न – 08 प्रश्न – 16 अंक
3. लघुउत्तरीय प्रश्न – 08 प्रश्न – 24 अंक
4. दीर्घउत्तरीय प्रश्न – 4-5 प्रश्न – 20 अंक

आंतरिक मूल्यांकन – 20 अंक

1. डॉ. गणपति चन्द्रगुप्त – भारतीय एवं पाश्चात्य काव्य सिद्धांत
2. डॉ. भगीरथ मिश्र – पाश्चात्य काव्य शास्त्र, इतिहास, सिद्धांत एवं वाद
3. डॉ. राममूर्ति त्रिपाठी- भारतीय काव्य शास्त्र के नये क्षितिज
4. डॉ. शिवकुमार मिश्र- मार्क्सवादी साहित्य के सिद्धांत
5. डॉ. नगेन्द्र – भारतीय काव्य शास्त्र की भूमिका
6. डॉ. निर्मला जैन – पाश्चात्य साहित्य चिंतन
7. मुलजी भाई- भारतीय और पाश्चात्य काव्य शास्त्र
8. डॉ. गंगा प्रसाद विमल – आधुनिकता, साहित्य के संदर्भ में ।

एम.ए. – (हिन्दी) 2018–19

तृतीय सेमेस्टर  
प्रश्न पत्र – द्वितीय  
(भाषा विज्ञान)

पूर्णांक : 80

पाठ्य विषय:-

- इकाई-1 भाषा और भाषा विज्ञान, भाषा की परिभाषा और अभिलक्षण, भाषा व्यवस्था और भाषा व्यवहार, भाषा संरचना, भाषा विज्ञान स्वरूप एवं व्याप्ति, अध्ययन की दिशाएँ-वर्णनात्मक, ऐतिहासिक और तुलनात्मक ।
- इकाई-2 स्वन प्रक्रिया : स्वन विज्ञान का स्वरूप और शाखाएँ, वागवयव और उनके कार्य, स्वन की अवधारणा और स्वनों का वर्गीकरण, स्वन गुण, स्वनिम परिवर्तन । स्वनिम विज्ञान का स्वरूप, स्वनिम की अवधारणा, स्वनिम के भेद ।
- इकाई 3 व्याकरण : रूप विज्ञान का स्वरूप और शाखाएँ, रूपिम की अवधारणा और भेद, मुक्त – आबद्ध अर्थदर्शी और संबंधदर्शी रूपिम और शाखाएँ, रूपिम के भेद और प्रकार्य । वाक्य के भेद, वाक्य-विश्लेषण, निकटस्थ अवयव विश्लेषण ।
- इकाई 4 अर्थ विज्ञान : अर्थ की अवधारणा, शब्द और अर्थ का संबंध, अर्थ परिवर्तन, पर्यायवाची, अनेकार्थी, समानार्थी एवं विलोमार्थी शब्द ।

बाह्य परीक्षा – 80 अंक

- |                                      |                       |
|--------------------------------------|-----------------------|
| 1. वैकल्पिक प्रश्न/वस्तुनिष्ठ प्रश्न | - 20 प्रश्न - 20 अंक  |
| 2. अतिलघुउत्तरीय प्रश्न              | - 08 प्रश्न - 16 अंक  |
| 3. लघुउत्तरीय प्रश्न                 | - 08 प्रश्न - 24 अंक  |
| 4. दीर्घउत्तरीय प्रश्न               | - 4-5 प्रश्न - 20 अंक |

आंतरिक मूल्यांकन – 20 अंक

निर्धारित पुस्तकें:-

1. सामान्य भाषा विज्ञान- डॉ. बाबूराम सक्सेना
2. भाषा विज्ञान – डॉ. भोलानाथ तिवारी
3. भारत के भाषा परिवार – डॉ. रामनिवास शर्मा
4. भाषाशास्त्र की रूपरेखा – उदयनारायण तिवारी
5. हिन्दी शब्दानुशासन – किशोरी दास बाजपेयी
6. भाषा विज्ञान और भाषा शास्त्र – कपिलदेव द्विवेदी
7. सामान्य भाषाविज्ञान – बाबूराम सक्सेना
8. हिन्दी और उसका संक्षिप्त इतिहास – भोलानाथ तिवारी
9. हिन्दी और उसकी विविध बोलियाँ – प्रो. दीपचंद जैन
10. भाषा विज्ञान के सिद्धांत और हिन्दी भाषा – द्वारिका प्रसाद मिश्र

एम.ए. – (हिन्दी) 2018–19  
तृतीय सेमेस्टर  
प्रश्न पत्र – तृतीय  
(कामकाजी हिन्दी एवं पत्रकारिता)

पाठ्य विषयः—

पूर्णांक : 80

- इकाई-1 हिन्दी के विभिन्न रूप – सर्जनात्मक भाषा, संचार भाषा, राजभाषा, माध्यम भाषा, कार्यालयीन हिन्दी (राजभाषा) के प्रमुख प्रकार्य— प्रारूपण, पत्र लेखन, संक्षेपण, पल्लवन, टिप्पणी ।
- इकाई-2 पारिभाषिक शब्दावली, स्वरूप एवं महत्व, पारिभाषिक शब्दावली निर्माण के सिद्धांत, ज्ञान-विज्ञान के विभिन्न क्षेत्रों की पारिभाषिक शब्दावली । हिन्दी कम्प्यूटर— कम्प्यूटर परिचय, उपयोगिता क्षेत्र, वेब पेज पब्लिशिंग परिचय ।
- इकाई-3 इंटरनेट संपर्क उपकरणों का परिचय, प्रकार्यात्मक रख-रखाव एवं इंटरनेट समय मितव्ययता के सूत्र । इंटरनेट एक्सप्लोइट अथवा नेट स्केप । हिन्दी साफ्टवेयर पैकेज ।
- इकाई-4 पत्रकारिता का स्वरूप एवं प्रकार, हिन्दी पत्रकारिता का संक्षिप्त इतिहास । समाचार लेखन कला, संपादन के आधारभूत तत्त्व, व्यवहारिक प्रूफशोधन, शीर्षक संरचना, लीड, इंट्रो एवं शीर्षक, संपादकीय लेखन, पृष्ठ सज्जा, साक्षात्कार, पत्रकारवार्ता एवं प्रेस प्रबंधन, प्रमुख प्रेस कानून एवं आचार संहिता ।

बाह्य परीक्षा – 80 अंक

- |                                      |                       |
|--------------------------------------|-----------------------|
| 1. वैकल्पिक प्रश्न/वस्तुनिष्ठ प्रश्न | – 20 प्रश्न – 20 अंक  |
| 2. अतिलघुउत्तरीय प्रश्न              | – 08 प्रश्न – 16 अंक  |
| 3. लघुउत्तरीय प्रश्न                 | – 08 प्रश्न – 24 अंक  |
| 4. दीर्घउत्तरीय प्रश्न               | – 4-5 प्रश्न – 20 अंक |

आंतरिक मूल्यांकन – 20 अंक

निर्धारित पुस्तकेंः—

- |                                              |                                            |
|----------------------------------------------|--------------------------------------------|
| 1. प्रयोजन परक हिन्दी                        | – प्रो. सूर्यप्रसाद दीक्षित                |
| 2. प्रशासनिक हिन्दी                          | – पुष्पा कुमारी, क्लासिक पब्लिक कम्पनी     |
| 3. पत्रकारिता के छह दशक                      | – जगदीश प्रसाद चतुर्वेदी                   |
| 4. हिन्दी पत्रकारिता का प्रतिनिधि संकलन      | – तरुशिखा सुरजन, राजकमल प्रकाशन, नई दिल्ली |
| 5. हिन्दी पत्रकारिता                         | – कृष्ण बिहारी मिश्र                       |
| 6. भारतीय समाचार पत्रों का संगठन एवं प्रबंधन | – डॉ. सुकुमार जैन                          |
| 7. पत्रकारिता का इतिहास एवं जनसंचार माध्यम   | – डॉ. संजीव मनावत                          |
| 8. कम्प्यूटर के भाषिक अनुप्रयोग              | – विजय मल्होत्रा                           |
| 9. कम्प्यूटर एप्लीकेशन                       | – गौरव अग्रवाल                             |

एम.ए. - (हिन्दी साहित्य) - 2018-19

तृतीय सेमेस्टर  
प्रश्न पत्र - चतुर्थ  
भारतीय साहित्य

पूर्णांक : 80

पाठ्य विषय :-

- इकाई-1 भारतीय साहित्य का स्वरूप, भारतीय साहित्य के अध्ययन की समस्याएँ, भारतीय साहित्य में आज के भारत का बिम्ब, हिन्दी साहित्य में भारतीय मूल्याँ की अभिव्यक्ति ।
- इकाई -2 हिन्दीतर साहित्य का इतिहास जो तीन वर्गों में विभक्त है -
1. दक्षिणात्य भाषा वर्ग से मलयालम
  2. पूर्वांचल भाषा वर्ग में बँगला
  3. पश्चिमोत्तर भाषा वर्ग में मराठी
- प्रत्येक विद्यार्थी इन तीनों विकल्पों में से एक भाषा चयन करेंगे बशर्ते वह भाषा अपनी क्षेत्रीय भाषा से भिन्न भाषा वाले वर्ग से संबंधित हो ।  
विद्यार्थी एक भाषा वर्ग (मलयालम, बंगला, मराठी) में से किसी एक के इतिहास का अध्ययन करेंगे ।
- इकाई -3 हिन्दी भाषा साहित्य एवं बंगला भाषा साहित्य का तुलनात्मक अध्ययन ।
- इकाई- 4 उपन्यास- अग्निगर्भ (बंगला- महाश्वेता देवी)  
नाटक - हयवदन (कन्नड़-गिरीश कर्नाड)  
कविता संग्रह- कोच्चि के दरख्त (मलयालम- के.जी. शंकर पिल्लै)

बाह्य परीक्षा - 80 अंक

1. वैकल्पिक प्रश्न/वस्तुनिष्ठ प्रश्न - 20 प्रश्न - 20 अंक
2. अतिलघुउत्तरीय प्रश्न - 08 प्रश्न - 16 अंक
3. लघुउत्तरीय प्रश्न - 08 प्रश्न - 24 अंक
4. दीर्घउत्तरीय प्रश्न - 4-5 प्रश्न - 20 अंक

आंतरिक मूल्यांकन - 20 अंक

निर्धारित पुस्तकें :-

1. मलयालम साहित्य - परख और पहचान - प्रो. आर. सुरेन्द्रन ।
2. राष्ट्रीय चेतना और मलयालम साहित्य - प्रो. आर. सुरेन्द्रन ।
3. मराठी भाषा और साहित्य - राजमल वोरा
4. मलयालम साहित्यकारों से साक्षात्कार - प्रो. आर. सुरेन्द्रन ।
5. बंगला भाषा और साहित्य का इतिहास - भारतीय भाषा संस्थान, इलाहाबाद
6. भारतीय साहित्य - डॉ. नगेन्द्र
7. भारतीय साहित्य रत्नमाला - सं.कृष्णदयाल भार्गव
8. भारतीय साहित्य के इतिहास की समस्याएँ - डॉ. रामविलास शर्मा
9. भारतीय भाषाओं के साहित्य का इतिहास - केन्द्रीय हिन्दी निर्देशालय, दिल्ली ।
10. भारतीय साहित्य : अवधारणा, समन्वय एवं सादृश्यता- जगदीश गुप्त

एम.ए. – (हिन्दी) 2018–19  
चतुर्थ सेमेस्टर  
प्रश्न पत्र – पंचम  
(हिन्दी आलोचना तथा समीक्षा शास्त्र)

पूर्णांक : 80

पाठ्य विषयः—

- इकाई 1 मनोविश्लेषण वाद, अस्तित्ववाद, अभिजात्यवाद, मार्क्सवाद, आधुनिक समीक्षा की विशिष्ट प्रवृत्तियों, संरचनावाद, शैलीविज्ञान, उत्तर आधुनिकता
- इकाई 2 हिन्दी कवि आचार्यों का काव्य शास्त्रीय चिंतन— लक्षण काव्य परम्परा — आचार्य रामचन्द्र शुक्ल, आचार्य हजारी प्रसाद द्विवेदी, आचार्य नंददुलारे वाजपेयी, डॉ. रामविलास शर्मा
- इकाई 3 आधुनिक हिन्दी आलोचना की प्रमुख प्रवृत्तियों— शास्त्रीय, ऐतिहासिक, मनोविश्लेषणवादी, सौंदर्य शास्त्रीय, शैली वैज्ञानिक
- इकाई 4 व्यवहारिक समीक्षा : काव्यांश की स्वविवेक के अनुसार व्याख्या

बाह्य परीक्षा – 80 अंक

1. वैकल्पिक प्रश्न/वस्तुनिष्ठ प्रश्न – 20 प्रश्न – 20 अंक
2. अतिलघुउत्तरीय प्रश्न – 08 प्रश्न – 16 अंक
3. लघुउत्तरीय प्रश्न – 08 प्रश्न – 24 अंक
4. दीर्घउत्तरीय प्रश्न – 4-5 प्रश्न – 20 अंक

आंतरिक मूल्यांकन – 20 अंक

निर्धारित पुस्तकें :-

1. डॉ. गोविंद त्रिगुणायत – शास्त्रीय समीक्षा के सिद्धांत भाग 1 एवं 2
2. डॉ. भगवत स्वरूप मिश्र – हिन्दी आलोचना : उद्भव और विकास
3. डॉ. रामेश्वर खण्डेलवाल – हिन्दी आलोचना के आधार स्तम्भ
4. डॉ. शिवकरण सिंह – आलोचना के बदलते मानदण्ड और हिन्दी साहित्य
5. डॉ. नंदकिशोर नवल – हिन्दी आलोचना का विकास
6. योगेन्द्र शाही – अस्तित्ववाद किर्कगार्द से कामू तक
7. रणधीर सिन्हा – आलोचनात्मक रामविलास शर्मा

Arko  
23/06/18

डॉ. अनुसुईया अग्रवाल डी.लिट्.,  
अध्यक्ष  
हिन्दी अध्ययन मंडल  
पं. रविशंकर शुक्ल विश्वविद्यालय  
रायपुर (छत्तीसगढ़) 492 001

एम.ए. – (हिन्दी) 2018-19  
चतुर्थ सेमेस्टर  
प्रश्न पत्र – षष्ठ  
(हिन्दी भाषा)

पूर्णांक : 80

पाठ्य विषय:-

- इकाई-1 हिन्दी की ऐतिहासिक पृष्ठभूमि : प्राचीन भारतीय आर्य भाषाएँ –  
वैदिक तथा लौकिक संस्कृत और उनकी विशेषताएँ । मध्यकालीन भारतीय  
आर्यभाषाएँ – पालि, प्राकृत, शौरसेनी, अर्धमागधी, मागधी, अपभ्रंश और  
उनकी विशेषताएँ । आधुनिक भारतीय भाषाएँ और उनका वर्गीकरण ।
- इकाई-2 हिन्दी का भौगोलिक विस्तार – हिन्दी की उपभाषाएँ, पश्चिमी हिन्दी, पूर्वी  
हिन्दी, राजस्थानी, बिहारी तथा पहाड़ी और उनकी बोलियाँ । खड़ी बोली,  
ब्रज और अवधी की विशेषताएँ ।
- इकाई-3 हिन्दी के विविध रूप- संपर्क भाषा, राष्ट्रभाषा, राजभाषा के रूप में हिन्दी,  
माध्यम भाषा, संचार भाषा, हिन्दी की संवैधानिक स्थिति ।
- इकाई-4 हिन्दी में कम्प्यूटर सुविधाएँ – आंकड़ा संसाधन और शब्द संसाधन, वर्तनी  
शोधक, मशीनी अनुवाद, हिन्दी भाषा शिक्षण । देवनागरी लिपि : विशेषताएँ  
और मानकीकरण ।

बाह्य परीक्षा – 80 अंक

- |                                      |                       |
|--------------------------------------|-----------------------|
| 1. वैकल्पिक प्रश्न/वस्तुनिष्ठ प्रश्न | - 20 प्रश्न - 20 अंक  |
| 2. अतिलघुउत्तरीय प्रश्न              | - 08 प्रश्न - 16 अंक  |
| 3. लघुउत्तरीय प्रश्न                 | - 08 प्रश्न - 24 अंक  |
| 4. दीर्घउत्तरीय प्रश्न               | - 4-5 प्रश्न - 20 अंक |

आंतरिक मूल्यांकन – 20 अंक

निर्धारित पुस्तकें:-

1. हिन्दी भाषा का संक्षिप्त इतिहास – भोलानाथ तिवारी
2. हिन्दी और उसकी विविध बोलियाँ – प्रो. दीपचंद जैन
3. भाषा भूगोल – कैलाशचंद्र भट्टिया हिन्दी समिति उ.प्र. शासन लखनऊ
4. हिन्दी भाषा की रूप संरचना – भोलानाथ तिवारी
5. राष्ट्रभाषा हिन्दी समस्याएँ और समाधान – देवेन्द्रनाथ शर्मा
6. नागरी लिपि और हिन्दी – अनंत चौधरी
7. सामान्य भाषा विज्ञान – डॉ. बाबूराम सक्सेना
8. भाषा विज्ञान – डॉ. भोलानाथ तिवारी

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Dr. Anusuya  
डॉ. अनुसुइया अग्रवाल  
अध्यक्ष  
हिन्दी अध्ययन मंडल  
पं. रविशंकर शुक्ल विश्वविद्यालय  
रायपुर (छत्तीसगढ़) 492 001

**एम.ए. – (हिन्दी) 2018–19**  
**चतुर्थ सेमेस्टर**  
**प्रश्न पत्र – सप्तम**  
**(मीडिया-लेखन एवं अनुवाद)**

पूर्णांक : 80

पाठ्य विषय:-

- इकाई-1 मीडिया लेखन  
जनसंचार : प्रौद्योगिक एवं चुनौतियाँ, विभिन्न जनसंचार-माध्यमों का स्वरूप-मुद्रण, श्रवण, दृश्य-श्रव्य, इंटरनेट, श्रवण-माध्यम (रेडियो), मौखिक भाषा की प्रकृति । समाचार लेखन एवं वाचन, रेडियो नाटक, उद्घोषणा लेखन, विज्ञापन-लेखन, फीचर तथा रिपोर्टाज ।
- इकाई-2 दृश्य-श्रव्य माध्यम (फिल्म, टेलीविजन एवं रेडियो), दृश्य-माध्यमों में भाषा की प्रकृति, दृश्य एवं श्रव्य सामग्री का सामंजस्य, पार्श्व वाचन (वॉयस ओवर) पटकथा-लेखन, टेली-ड्रामा, संवाद-लेखन, साहित्य की विधाओं का दृश्य माध्यमों में रूपान्तरण, विज्ञापन की भाषा ।
- इकाई-3 अनुवाद – सिद्धांत एवं व्यवहार  
अनुवाद का स्वरूप, क्षेत्र, प्रक्रिया एवं प्रविधि । हिन्दी की प्रयोजनीयता में अनुवाद की भूमिका । कार्यालयीन हिन्दी और अनुवाद, जनसंचार माध्यमों का अनुवाद, विज्ञापन में अनुवाद, वैचारिक साहित्य का अनुवाद, वाणिज्यिक अनुवाद, वैज्ञानिक तकनीकी तथा प्रौद्योगिकी क्षेत्रों में अनुवाद, विधि साहित्य की हिन्दी और अनुवाद ।
- इकाई-4 व्यावहारिक अनुवाद अभ्यास, कार्यालयीन अनुवाद, कार्यालयीन एवं प्रशासनिक शब्दावली, प्रशासनिक प्रयुक्तियाँ, पदनाम, विभाग, आदि पत्रों के अनुवाद, पदनामों-अनुभागों-दस्तावेजों-प्रतिवेदनों के अनुवाद, साहित्यिक अनुवाद के सिद्धांत एवं व्यवहार-कविता, कहानी, नाटक, सारानुवाद, दुभाषिया-प्रविधि ।

**बाह्य परीक्षा – 80 अंक**

- |                                      |                       |
|--------------------------------------|-----------------------|
| 1. वैकल्पिक प्रश्न/वस्तुनिष्ठ प्रश्न | - 20 प्रश्न - 20 अंक  |
| 2. अतिलघुउत्तरीय प्रश्न              | - 08 प्रश्न - 16 अंक  |
| 3. लघुउत्तरीय प्रश्न                 | - 08 प्रश्न - 24 अंक  |
| 4. दीर्घउत्तरीय प्रश्न               | - 4-5 प्रश्न - 20 अंक |

**आंतरिक मूल्यांकन – 20 अंक**

निर्धारित पुस्तकें:-

- जनसंचार माध्यमों में हिन्दी – डॉ. चन्द्रकुमार (क्लासिकल पब्लिक कंपनी)
- जनमाध्यम एवं पत्रकारिता – प्रवीण दीक्षित (सहयोगी साहित्य संस्थान)
- पत्रकारिता का इतिहास एवं जनसंचार माध्यम- डॉ. संजीव भागवन्त (उ.प्र. जयपुर)
- पत्रकारिता के विविध आयाम – वेदप्रताप वैदिक
- दूरदर्शन : हिन्दी के प्रयोनमूलक विविध प्रयोग : डॉ. कृष्णकुमार रत्तू (मीनाक्षी प्रकाशन, जयपुर)
- जनमाध्यम एवं पत्रकारिता – प्रवीण दीक्षित (सहयोगी साहित्य संस्थान)
- अनुवाद के सिद्धांत – सुरेश कुमार
- अनुवाद सिद्धांत की रूपरेखा – सुरेश कुमार
- अनुवाद – बोध – डॉ. गार्गी गुप्त (भारतीय अनुवाद परिषद् दिल्ली)



एम.ए. - (हिन्दी) - 2018-19  
चतुर्थ सेमेस्टर  
प्रश्न पत्र - अष्टम  
जनपदीय भाषा और साहित्य (छत्तीसगढ़ी)

पूर्णांक : 80

पाठ्य विषय :-

- इकाई-1 छत्तीसगढ़ी भाषा-भौगोलिक सीमा, नामकरण, भाषिक स्वरूप एवं व्याकरणिक विशेषताएँ ।
- इकाई-2 छत्तीसगढ़ी साहित्य की युग प्रवृत्तियाँ एवं इतिहास ।
- इकाई-3 छत्तीसगढ़ी कविता एवं कवि -  
(1) सुंदरलाल शर्मा  
(2) मुकुटधर पाण्डेय  
(3) हरि ठाकुर  
(4) डॉ. नरेन्द्र देव वर्मा
- इकाई-4 छत्तीसगढ़ी नाटक एवं उपन्यास  
1. करमछड़हा (नाटक) - डॉ. खूबचंद बघेल  
2. आवा (उपन्यास) - परदेशीराम वर्मा
- इकाई-5 द्रुतपाठ हेतु निम्नलिखित रचनाकार का अध्ययन (पांच लघुत्तरीय प्रश्न पूछे जायेंगे)  
(1) लखन लाल गुप्त (2) लक्ष्मण मस्तुरिहा (3) कैयूर भूषण  
(4) मुकुन्द कौशल (5) लोचन प्रसाद पाण्डेय (6) लाला जगदलपुरी  
(7) पवन दीवान (8) कोदूराम दलित

बाह्य परीक्षा - 80 अंक

1. वैकल्पिक प्रश्न/वस्तुनिष्ठ प्रश्न - 20 प्रश्न - 20 अंक
2. अतिलघुउत्तरीय प्रश्न - 08 प्रश्न - 16 अंक
3. लघुउत्तरीय प्रश्न - 08 प्रश्न - 24 अंक
4. दीर्घउत्तरीय प्रश्न - 4-5 प्रश्न - 20 अंक

आंतरिक मूल्यांकन - 20 अंक

निर्धारित पुस्तकें:-

1. छत्तीसगढ़ी भाषा का उद्विकास - डॉ. नरेन्द्र देव वर्मा
2. छत्तीसगढ़ी, हलबी, भतरी भाषाओं का भाषा वैज्ञानिक अध्ययन - भालचंद्र राव तैलंग
3. छत्तीसगढ़ी परिचय- डॉ. बलदेव मिश्र
4. छत्तीसगढ़ी लोकसाहित्य का अध्ययन - दयाशंकर शुक्ल
5. छत्तीसगढ़ी लोकजीवन और लोकसाहित्य का अध्ययन - डॉ. शकुन्तला वर्मा
6. छत्तीसगढ़ी भाषा का शास्त्रीय अध्ययन- डॉ. शंकर शेष
7. प्राचीन छत्तीसगढ़ी बोली - प्यारेलाल गुप्त
8. छत्तीसगढ़ी लोक साहित्य और भाषा - डॉ. बिहारीलाल साहू
9. छत्तीसगढ़ी भाषा और साहित्य - डॉ. सत्यभामा आडिल
10. छत्तीसगढ़ के साहित्यकार - देवीप्रसाद वर्मा
11. मानक छत्तीसगढ़ी व्याकरण - चंद्रकुमार चंद्राकर

**2018-19**  
**एम.ए. पूर्व (हिन्दी)**

एम.ए. पूर्व में कुल पांच प्रश्न पत्र होंगे । प्रत्येक प्रश्न पत्र तीन घण्टे का तथा 100 अंको का होगा । इस परीक्षा में भाषा और साहित्य का व्यापक ज्ञान अपेक्षित है । निर्धारित पुस्तक और उसके निर्दिष्ट अंश केवल व्याख्यापरख प्रश्नों के लिए है । समीक्षात्मक प्रश्न कृतिकार के संपूर्ण कृतित्व से संबंधित रहेंगे । द्रुत पाठ के लिए रचनाकार के कृतित्व से परिचित होना आवश्यक है । हिन्दी भाषा और साहित्य के संपूर्ण वाङ्मय का ज्ञान अपेक्षित है । हिन्दी के समकालीन भारतीय साहित्य, जनपदीय भाषा का साहित्य एवं रोजगारोन्मुख व्यावसायिक हिन्दी का पाठ्यक्रम बदलते युग की मांग है । अतः विद्यार्थियों को युगानुरूप हिन्दी के विविध व्यावसायिक रूपों का भी अध्ययन करना होगा ।

प्रत्येक प्रश्न पत्र में संबंधित काल के इतिहास एवं संस्कृति की जानकारी भी अपेक्षित है । अपने क्षेत्र से संबंधित आंचलिक बोली/भाषा का अपेक्षित ज्ञान एवं क्षेत्रीय शब्दों का सर्वेक्षण कार्य आवश्यक है ।

एम.ए. पूर्व हिन्दी के निम्नलिखित पांच प्रश्न पत्र होंगे:-

| क्रं. | प्रश्न पत्र | प्रश्न पत्र का नाम                  | अंक | पेपर कोड |
|-------|-------------|-------------------------------------|-----|----------|
| 1.    | प्रथम       | हिन्दी साहित्य का इतिहास            | 100 | 0313     |
| 2.    | द्वितीय     | प्राचीन एवं मध्यकालीन काव्य         | 100 | 0314     |
| 3.    | तृतीय       | आधुनिक हिन्दी काव्य                 | 100 | 0315     |
| 4.    | चतुर्थ      | आधुनिक गद्य काव्य                   | 100 | 0316     |
| 5.    | पंचम        | जनपदीय भाषा और साहित्य (छत्तीसगढ़ी) | 100 | 0317     |

**एम.ए. पूर्व (हिन्दी)**  
**प्रथम प्रश्न पत्र**  
**हिन्दी साहित्य का इतिहास**  
**(पेपर कोड 0313)**

प्रस्तावना-

किसी भी देश के जनमानस की मनोवृत्ति, दशा एवं संवेदना के विविध स्वरूपों का संचित रूप वहां के साहित्य में परिलक्षित होता है । सामाजिक, राजनीतिक, सांस्कृतिक आदि विभिन्न परिस्थितियों के कारण चित्तवृत्तियों में परिवर्तन होता है, फलतः साहित्यिक रूपों में भी बदलाव आ जाता है । इस बदली हुई विकास प्रक्रिया को साहित्य के इतिहास के माध्यम से ही देखा परखा जा सकता है ।

हिन्दी क्षेत्र की परिस्थितियों से कमोबेश पूरा भारत प्रभावित होता रहा है जिसकी गूँज हिन्दी साहित्य में प्रतिध्वनित है । आठवीं नवीं शताब्दी से लेकर आज तक

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डॉ. अनुसुईया अग्रवाल डी.लिद्.  
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हिन्दी अध्ययन मंडल  
पं. रविशंकर शुक्ल विश्वविद्यालय  
रायपुर (छत्तीसगढ़) 492 001

के विकास परिदृश्य के साथ साहित्यिक सृजनशीलता के विविध रूपों, प्रवृत्तियों और भाषा-शैलियों का ज्ञान हिन्दी साहित्य के इतिहास के माध्यम से ही किया जा सकता है । अतः इसका अध्ययन सर्वथा सार्थक एवं समीचीन है ।

पाठ्य विषय

इकाई-1 इतिहास-दर्शन और साहित्येतिहास ।

- हिन्दी साहित्य के इतिहास लेखन की परम्परा, आधारभूत सामग्री और साहित्येतिहास के पुनर्लेखन की समस्याएँ ।
- हिन्दी साहित्य का इतिहास : काल विभाजन, सीमा-निर्धारण और नामकरण ।
- हिन्दी साहित्य : आदिकाल की पृष्ठभूमि, सिद्ध और नाथ-साहित्य, रासो-काव्य, जैन-साहित्य ।
- हिन्दी साहित्य के आदिकाल का ऐतिहासिक परिदृश्य, साहित्यिक प्रवृत्तियाँ, काव्यधाराएँ, गद्य साहित्य, प्रतिनिधि रचनाकार और उनकी रचनाएँ ।

इकाई-2 पूर्व-मध्यकाल (भक्तिकाल) की ऐतिहासिक पृष्ठभूमि, सांस्कृतिक-चेतना एवं भक्ति-आंदोलन, विभिन्न-काव्यधाराएँ तथा उनका वैशिष्ट्य ।

- प्रमुख निर्गुण संत कवि और उनका अवदान ।
- भारत में सूफी मत का विकास तथा प्रमुख सूफी कवि और काव्यग्रंथ, सूफी काव्य में भारतीय संस्कृति एवं लोकजीवन के तत्व ।
- राम और कृष्ण काव्य, राकृष्णोत्तर काव्य, भक्तीतर काव्य, प्रमुख कवि और उनका रचनागत वैशिष्ट्य, भक्तिकालीन गद्य- साहित्य ।

इकाई-3 उत्तरमध्यकाल (रीतिकाल) की ऐतिहासिक पृष्ठभूमि, काल-सीमा और नामकरण, दरबारी संरक्षित लक्षण ग्रंथों की परम्परा, रीतिकालीन साहित्य की विभिन्न धाराएँ (रीतिबद्ध, रीतिसिद्ध और रीतिमुक्त) प्रवृत्तियाँ और विशेषताएँ, प्रतिनिधि रचनाकार और रचनाएँ । रीतिकालीन गद्य-साहित्य । आधुनिक काल की सामाजिक, राजनैतिक, आर्थिक एवं सांस्कृतिक पृष्ठभूमि, सन् 1857 की राजक्रांति और पुनर्जागरण ।

भारतेंदु युग : प्रमुख साहित्यकार, रचनाएँ और साहित्यिक विशेषताएँ ।

द्विवेदी युग : प्रमुख साहित्यकार, रचनाएँ और साहित्यिक विशेषताएँ ।

- हिन्दी स्वच्छदयावादी चेतना का परवर्ती विकास-छायावादी काव्य : प्रमुख साहित्यकार, रचनाएँ और साहित्यिक विशेषताएँ ।

इकाई-4 उत्तरछायावादी काव्य की विविध प्रवृत्तियाँ-प्रगतिवाद, प्रयोगवाद, नयी कविता, नवगीत, समकालीन कविता ।

प्रमुख साहित्यकार, रचनाएँ और साहित्यिक विशेषताएँ ।

- हिन्दी गद्य की प्रमुख विधाओं (कहानी, उपन्यास, नाटक, निबंध, संस्मरण, रेखाचित्र, जीवनी, आत्मकथा, रिपोर्ताज, आदि) का विकास ।

- हिन्दी आलोचना का उद्भव और विकास ।
- दक्खिनी हिन्दी साहित्य का संक्षिप्त परिचय ।
- उर्दू साहित्य का संक्षिप्त परिचय ।
- हिन्दीत्तर क्षेत्रों तथा देशान्तर में हिन्दी भाषा और साहित्य ।

अंक विभाजन -

|                       |        |         |
|-----------------------|--------|---------|
| 04 आलोचनात्मक प्रश्न  | 4 X 15 | 60 अंक  |
| 05 लघुत्तरीय प्रश्न   | 5 X 4  | 20 अंक  |
| 20 वस्तुनिष्ठ प्रश्नय | 20X 1  | 20 अंक  |
|                       | कुल    | 100 अंक |

संदर्भ-ग्रन्थ -

1. हिन्दी साहित्य का इतिहास- आचार्य रामचन्द्र शुक्ल
2. हिन्दी साहित्य का इतिहास- डॉ. नगेन्द्र
3. हिन्दी साहित्य का इतिहास - बाबू गुलाबराय
4. हिन्दी साहित्य का इतिहास - डॉ. रामकुमार वर्मा
5. हिन्दी साहित्य का इतिहास- रमाशंकर शुक्ल रसाल ।
6. हिन्दी साहित्य का आदिकाल - डॉ. हजारी प्रसाद द्विवेदी
7. हिन्दी साहित्य : युग और प्रवृत्तियाँ - डॉ. शिवकुमार शर्मा
8. आधुनिक हिन्दी साहित्य का इतिहास- कृष्ण शंकर शुक्ल ।
9. हिन्दी भाषा और साहित्य का इतिहास- चतुरसेन शास्त्री
10. हिन्दी साहित्य का विवेचनात्मक इतिहास - देवीशरण रस्तोगी ।
11. हिन्दी साहित्य और उसका विकास - प्रेमलता अग्रवाल
12. हिन्दी साहित्य का संक्षिप्त इतिहास - श्यामसुन्दर दास एवं नंद दुलारे वाजपेयी
13. हिन्दी साहित्य का विवेचनात्मक इतिहास - डॉ. सरयूकान्त शास्त्री
14. हिन्दी साहित्य का इतिहास - हृदयेश मिश्र
15. हिन्दी साहित्य युग और धार - कृष्ण नारायण प्रसाद 'मागध' प्रसाद 'मागध'
16. संस्कृति के चार अध्याय- दिनकर
17. हिन्दी साहित्य का वृहद् इतिहास - नागरी प्रचारिणी सभा (18 भाग)
18. हिन्दी साहित्य- हजारी प्रसाद द्विवेदी
19. हिन्दी साहित्य की भूमिका - हजारी प्रसाद द्विवेदी
20. हिन्दी साहित्य का वैज्ञानिक इतिहास - डॉ. गणपति चन्द्र गुप्त भाग 1 एवं 2

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23/06/18

डॉ. अनुसुईया अग्रवाल डी.लिट्.  
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पं. रविशंकर शुक्ल विश्वविद्यालय  
रायपुर (छत्तीसगढ़) 492 001

**द्वितीय प्रश्न पत्र**  
**प्राचीन एवं मध्यकालीन काव्य**  
**(पेपर कोड-0314)**

**प्रस्तावना-**

हिन्दी के आदिकालीन काव्य अपनी पृष्ठभूमि में अप्रभंश के आवेदन को पूरी तरह समेटे हुए है। प्रबंध, मुक्तक आदि काव्य रूपों में रचित और अपभ्रंश एवं देशी भाषा में अभिव्यजित आदिकालीन साहित्य की परवर्ती कालों को प्रभावित करने में सक्रिय एवं सक्षम भूमिका रही है। इनका अध्ययन समाज, संस्कृति और गुण की घड़कनों को समग्रता में समझने के लिए अनिवार्य है।

**पाठ्य विषय-**

व्याख्या एवं विवेचन के लिए निम्नांकित 6 कवियों का अध्ययन किया जाएगा

1. चंदरबरदाई: पृथ्वीराज रासो संपा, आचार्य हजारी प्रसाद द्विवेदी एवं डॉ. नावर सिंह (शशिवृता विवाह खण्ड)
2. विद्यापति : विद्यापति पदावली-संपा. रामवृक्ष बेनीपुरी (प्रारंभिक)
3. कबीर ग्रंथावली: संपा. डॉ. श्यामसुंदर दास (100 साखियाँ एवं 25 पद)  
साखियाँ : गुरुदेव की अंग 1 से 20, सुमिरण की अंग 1 से 10, विरह की अंग 1 से 10, ग्यान विरह की अंग 1 से 10, परचा की अंग 1 से 10, रस की अंग, 1 से 5 निहकर्मि पतिव्रता - 1 से 10, चितावणी 1 से 10, माया 1 से 5, काल की अंग 1 से 10 तक।  
पद संख्या : 11, 16, 24, 26, 27, 40, 47, 49, 60, 64, 70, 72, 75, 89, 93, 98, 99, 100, 101, 103, 110, 111, 135, 268 = (25 पद)
4. सूरदास : भ्रमर गीत सार-संपा, आचार्य रामचंद्र शुक्ल (50 पद)
5. तुलसीदास : रामचरित मानस (गीता प्रेस) (सुंदरकांड)
6. बिहारी : बिहारी रत्नाकर, - संपा, जगन्नाथ प्रसाद रत्नाकर (प्रारंभिक 100 दोहे)
7. खण्डेराव भोंसले: राधा विनोद - उत्तरार्ध-अध्याय छब्बीस (रुक्मिणी-कृष्ण विवाह)

द्रुत पाठ हेतु निम्नांकित 10 कवियों की रचनाओं का ज्ञान, भावगत, शिल्पगत विशेषताएँ, कालगत प्रवृत्तियाँ एवं कवि का परिचय जानना आवश्यक है। इन 10 कवियों पर 5 लघुत्तरीय प्रश्न पूछे जायेंगे।

- |             |            |             |           |
|-------------|------------|-------------|-----------|
| 1. नन्ददास, | 2. दादू    | 3. मीरा बाई | 4. रैदास, |
| 5. रहीम     | 6. रसखान   | 7. केशव     | 8. देव    |
| 9. भूषण     | 10. पदमाकर |             |           |

Ank  
23/06/18

डॉ. अनुसुईया अग्रवाल डी.लिट्.,  
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हिन्दी अध्ययन मंडल  
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रायपुर (छत्तीसगढ़) 492 001

अंक विभाजन -

|                                    |         |        |
|------------------------------------|---------|--------|
| 3 व्याख्या                         | 3X 10 = | 30 अंक |
| 2 आलोचनात्मक प्रश्न                | 2X 15 = | 30 अंक |
| 5 लघुत्तरीय प्रश्न                 | 5X 4 =  | 20 अंक |
| 20 वस्तुनिष्ठ/अति लघुत्तरीय प्रश्न | 20X 1 = | 20 अंक |

इकाई विभाजन -

|        |                                                  |
|--------|--------------------------------------------------|
| इकाई-1 | व्याख्या                                         |
| इकाई-2 | चंदरबरदाई, विद्यापति एवं कबीर                    |
| इकाई-3 | सूरदास, तुलसीदास, बिहारीलाल एवं खण्डेराव भोंसले  |
| इकाई-4 | दुतपाठ के 10 कवि                                 |
| इकाई-5 | सहायक पाठ्य पुस्तकों से - वस्तुनिष्ठ/अतिलघुत्तरी |

सहायक पुस्तकें:-

1. हिन्दी साहित्य का इतिहास आचार्य रामचंद्र शुक्ल
2. हिन्दी साहित्य का आदिकाल - डॉ. हजारी प्रसाद द्विवेदी
3. चन्दबरदाई - डॉ. विपिन बिहारी द्विवेदी
4. विद्यापति - जयनाथ नलिन
5. महाकवि विद्यापति - डॉ. कृष्णानंद पीयूष
6. कबीर का रहस्यवाद - डॉ. रामकुमार वर्मा
7. कबीर साहित्य की परख - परशुराम चतुर्वेदी
8. संत धर्मदास : कबीर पंथ के प्रवर्तक - डॉ. सत्यभाम आडिल
9. कृष्ण काव्य और सूर - डॉ. प्रेमशंकर
10. सूरदास काव्य का मूल्यांकन - डॉ. रामरतन भटनागर
11. सूर साहित्य - डॉ. हजारी प्रसाद द्विवेदी
12. सूरदास - डॉ. हरवंशलाल वर्मा
13. महाकवि तुलसीदास और उनका युग संदर्भ - डॉ. भागीरथ मिश्र
14. तुलसी दर्शन - डॉ. बलदेव प्रसाद मिश्र
15. बिहारी का मूल्यांकन - डॉ. बच्चन सिंह
16. मुक्तक काव्य परंपरा और बिहारी - डॉ. रामसागर त्रिपाठी
17. रीति स्वच्छन्द काव्य धारा - डॉ. कृष्णचन्द्र वर्मा
18. मध्यकालीन हिन्दी काव्यधारा - डॉ. रामस्वरूप मिश्र
19. भक्तिकाल और लोकजीवन - डॉ. शिवकुमार मिश्र
20. घनानंद और स्वच्छंद काव्यधारा - डॉ. मोहन लाल गौड़
21. कबीर - डॉ. महावीर अग्रवाल, श्री प्रकाशन, दुर्ग
22. कबीर - डॉ. हजारी प्रसाद द्विवेदी
23. प्रमुख प्राचीन कवि - डॉ. द्वारिका प्रसाद सक्सेना

तृतीय प्रश्न पत्र  
आधुनिक हिन्दी काव्य  
(पेपर कोड 0315)

प्रस्तावना –

आधुनिक हिन्दी काव्य पुनर्नवा के रूप में नवीन भावभूमि एवं वैचारिक गतिशीलता लेकर अवतरित हुआ। आधुनिकता, इहलौकिकता, विश्वजनीनता एवं वैज्ञानिक दृष्टिकोण इसकी प्रमुख विशेषताएँ हैं। उपेक्षित विषय भी यहाँ सार्थक एवं प्रासंगिक हो गए। उन्नीसवीं सदी के उत्तरार्द्ध से अद्यावधि तक की संवेदनाएँ, भावनाएँ एवं नूतन विचार सरणियों इसमें अभिव्यक्ति हुए हैं। मुकम्मल मनुष्य इसमें अभिव्यंजित हुआ है। विविध धाराओं में प्रवाहमान आधुनिक हिन्दी काव्य प्रेरणा और ऊर्जा का अजस्र स्रोत है। इस प्रश्न पत्र में व्याख्या एवं विवेचना के लिए निम्नांकित 7 कवियों का अध्ययन किया जाएगा।

पाठ्य विषय–

1. मैथिलीशरण गुप्ता : साकेत (नवम सर्ग)
2. जयशंकर प्रसाद : कामायनी (चिन्ता, श्रद्धा, इड़ा सर्ग)
3. सूर्यकांत त्रिपाठी निराला : राम की शक्ति पूजा, सरोज स्मृति एवं कुकुरमुत्ता।
4. पंत : (1) परिवर्तन (2) नौका विहार
5. महादेवी वर्मा : (1) प्रिय सांध्य गगन (2) मैं नीरभरी दुःख की बदली (3) पंत होने दो अपरिचित प्राण रहने दो अकेला (4) दूर गया वह निर्मम दर्पण (5) यह मंदिर का दीप इसे नीरव जलने दो (6) रूपसी तेरा धन केश पाश।
6. अज्ञेय : (1) नदी के द्वीप (2) असाध्य वीणा (3) बावरा अहेरी (4) सोन मछली (5) आंगन के चार (6) कितनी नावों में कितनी बार (7) सत्य तो बहुत मिले (8) एक सन्नाटा बुनता हूँ (9) हमने पौधों से कहा (10) सागर मुद्रा।
7. मुक्तिबोध : अंधेरे में।
8. नागार्जुन : (1) बादल को धिरते देखा है (2) सिन्दुर तिलकित भाल (3) बसन्त की आगवानी (4) कोई आए तुमसे सीखे (5) शिशिर विषकन्या (6) तो फिर क्या हुआ (7) यह तुम थीं (8) कोयल आज बोली है (9) अकाल और उसके बाद (10) शासन की बन्दूक।

द्वुत्पाठ हेतु निम्नांकित 12 कवियों का अध्ययन किया जाएगा। इसमें से किन्हीं 5 कवियों पर लघुत्तरीय प्रश्न पूछे जाएंगे –

- |                                |                       |                           |
|--------------------------------|-----------------------|---------------------------|
| 1. अयोध्या सिंह उपाध्याय हरिऔध | 2. हरिवंशराय बच्चन    | 3. केदारनाथ अग्रवाल       |
| 4. भवानी प्रसाद मिश्र          | 5. शमशेर बहादुर सिंह  | 6. त्रिलोचन               |
| 7. रघुवीर सहाय                 | 8. धूमिल              | 9. सर्वेश्वर दयाल सक्सेना |
| 10. दुष्यंत कुमार              | 11. इन्द्र बहादुर खरे | 12. माखनलाल चतुर्वेदी     |

अंक विभाजन -

|                                    |         |         |
|------------------------------------|---------|---------|
| 3 व्याख्या                         | 3X 10 = | 30 अंक  |
| 2 आलोचनात्मक प्रश्न                | 2X 15 = | 30 अंक  |
| 5 लघुत्तरीय प्रश्न                 | 5X 4 =  | 20 अंक  |
| 20 वस्तुनिष्ठ/अति लघुत्तरीय प्रश्न | 20X 1 = | 20 अंक  |
|                                    | कुल =   | 100 अंक |

इकाई विभाजन -

- इकाई-1 व्याख्या  
 इकाई-2 गुप्त, प्रसाद व निराला ।  
 इकाई-3 महादेवी वर्मा, अज्ञेय, मुक्तिबोध एवं नागार्जुन ।  
 इकाई-4 द्रुतपाठ के 12 कवि  
 इकाई-5 वस्तुनिष्ठ (सभी पाठ्यपुस्तकों से)

सहायक पुस्तकें-

1. साकेत एक अध्ययन - डॉ. नगेन्द्र
2. प्रसाद का काव्य - डॉ. प्रेमशंकर
3. कामायनी का पुनर्मूल्यांकन - डॉ. रामस्वरूप चतुर्वेदी
4. कामायनी एक पुनर्विचार - मुक्तिबोध
5. कामायनी के अध्ययन की समस्याएँ - डॉ. नगेन्द्र
6. कवि निराला - आचार्य नंद दुलारे वाजपेयी
7. निराला की साहित्य साधना - डॉ. रामविलास शर्मा
8. कवि दृष्टि - रामस्वरूप चतुर्वेदी
9. नयी कविता की पहचान - डॉ. राजेन्द्र मिश्र
10. हिन्दी साहित्य : आधुनिक परिदृश्य - अज्ञेय
11. नया साहित्य : नये प्रश्न - आचार्य नंददुलारे वाजपेयी
12. हिन्दी साहित्य सम्मेलन का प्रकार - विवरणिका
13. स्मृति लेखा - सं. ही. वात्स्यायन
14. कामायनी मिथक और स्वप्न - रमेश कुंतल मेंढ
15. फिलहाल - डॉ. अशोक वाजपेयी
16. अज्ञेय का रचना संसार - डॉ. रामस्वरूप चतुर्वेदी
17. कविता की तीसरी आंख - डॉ. प्रभाकर श्रोत्रिय
18. कविता से साक्षात्कार - मलयज
19. कविता का गल्प - डॉ. अशोक वाजपेयी
20. शमशेर बहादुर सिंह - डॉ. प्रभाकर श्रोत्रिय
21. हिन्दी साहित्य का इतिहास - आचार्य रामचन्द्र शुक्ल
22. निराला काव्य पुनर्मूल्यांकन - डॉ. धनंजय वर्मा
23. समकालीन हिन्दी कविता - रमेश अनुपम



24. समकालीन हिन्दी काव्य – डॉ. द्वारिका प्रसाद सक्सेना
25. परम अभिव्यक्ति की खोज – डॉ. धनंजय वर्मा  
(मुक्तिबोध के काव्य का पुर्नमूल्यांकन)
26. मोर के गीत – इन्द्रबहादुर खरे
27. आधुनिक काव्य संकलन – सत्यभामा आडिल
28. साकेश का शैली वैज्ञानिक अध्ययन – सुभ्रदा राठौर
29. कवि कथाकार विनोद कुमार शुक्ल का साहित्य – डॉ. आस्था तिवारी (शताक्षी प्रकाशन चौबे कालोनी, रायपुर)
30. प्रगतिशील कविता और केदार – गिरिजाशंकर गौतम (शताक्षी प्रकाशन चौबे कालोनी, रायपुर)
31. मूकमाटी – श्री विद्यासागर जी
32. छायावादोत्तर काव्य की विभिन्न प्रवृत्तियों एवं उनका चैन्तनिक पक्ष – डॉ. ज्योति पाण्डेय

**चतुर्थ प्रश्न पत्र**  
**आधुनिक गद्य-साहित्य**  
**(पेपर कोड-0316)**

उद्देश्य और प्रस्तावना-

आधुनिक काल में गद्य-साहित्य को अभूतपूर्वक सफलता मिली है। यह मानव-मन और मस्तिष्क की अभिव्यक्ति का सशक्त एवं अनिवार्य माध्यम बन गया है। मनुष्य का राग-विराग, तर्क-वितर्क तथा चिंतन-मनन जिस रागात्मकता के साथ कौशलपूर्व ढंग से गद्य में अभिव्यंजित होता है, वैसा अन्य साहित्यांग में नहीं। आधुनिक काल में गद्य की विविध रूपों का विकास इस तथ्य का साक्षी है कि प्रौढ़-मन मस्तिष्क की पूर्ण अभिव्यक्ति गद्य में ही संभव है। निबंध गद्य का प्रौढ़ शक्तिशाली प्रतिरूप, उसकी वैयक्तिक एवं स्वातंत्र्य चेतना का विश्वसनीय प्रतिनिधि है। नाटक, उपन्यास, कहानी तथा अन्य विविध विधाओं के रूप में गद्य साहित्य वामन से विराट बन गया है। आज मनुष्य को उसकी प्रकृति, परिवेश परिस्थिति तथा चिंतन की विकास प्रक्रिया के साथ सहज प्रामाणिक रूप में गद्य के माध्यम से ही जाना जा सकता है। अतः इसका अध्ययन अनिवार्य है। इस प्रश्न पत्र में 2 नाटक, 2 उपन्यास, 7 निबंध, 7 कहानियाँ एवं 1 चरितात्मक कृति पठनीय है।

पाठ्य विषय-

व्याख्या एवं विवेचन के लिए निर्धारित -

1. चन्द्रगुप्त (जयशंकर प्रसाद)
2. हानूश (भीष्म साहनी)
3. गोदान (प्रेमचंद)
4. बाणभट्ट की आत्मकथा (हजारी प्रसाद द्विवेदी)
5. निबंध-

1. बालकृष्ण भट्ट : चढ़ती उमर
2. आचार्य रामचंद्र शुक्ल : कविता क्या है?
3. आचार्य हजारी प्रसाद द्विवेदी : भारतीय साहित्य की प्राणशक्ति
4. रामवृक्ष बेनीपुरी : माटी की मूर्तें
5. कुबेरनाथ राय : हरी हरी दूब और लाचार क्रोध
6. विद्यानिवास मिश्र : चन्द्रमा मनसो जातः

7. हरिशंकर परसाई : वैष्णव की फिसलन  
6. कहानी—

- |                            |                  |
|----------------------------|------------------|
| 1. चन्द्रधर शर्मा गुलेरी : | उसने कहा था      |
| 2. जयशंकर प्रसाद :         | पुरस्कार         |
| 3. प्रेमचंद :              | सुजान भगत        |
| 4. राजेन्द्र यादव :        | छोटे-छोटे ताजमहल |
| 5. कृष्णा सोबती :          | बादलों के घेरे   |
| 6. उषा प्रियंवदा :         | वापसी            |
| 7. यशपाल :                 | मक्रील           |

7. चरितात्मक कथा —  
विष्णु प्रभाकर : आवारा मसीहा ।

द्रुत पाठ हेतु 5 नाटककार, 5 उपन्यासकार, 5 निबंधकार, 5 कहानीकार और 2 स्फुट गद्य विधाओं के रचनाकार रखे गए हैं । इनमें से प्रत्येक विधा से संबंधित 1-1 लघुत्तरीय प्रश्न पूछा जाएगा ।

- |             |                           |                          |                     |
|-------------|---------------------------|--------------------------|---------------------|
| नाटककार—    | 1. भारतेन्दु हरिश्चन्द्र  | 2. डॉ. रामकुमार वर्मा    | 3. भुवनेश्वर        |
|             | 4. जगदीशचन्द्र माथुर      | 5. उपेन्द्रनाथ अशक       |                     |
| उपन्यासकार— | 1. राहुल सांस्कृत्यायन    | 2. यशपाल                 | 3. अमृतलाल नागर     |
|             | 4. भीष्म सहानी            | 5. मन्नू भण्डारी         |                     |
| निबंधकार—   | 1. प्रतापनारायण मिश्र     | 2. सरदार पूर्णसिंह       | 3. बालमुकुन्द गुप्त |
|             | 4. शिवपूजन सहायक          | 5. चन्द्रधर शर्मा गुलेरी |                     |
| कहानीकार—   | 1. पांडेय बेचन शर्मा उग्र | 2. रांगेय राघव           | 3. फणीश्वरनाथ रेणु  |
|             | 4. शिव प्रसाद सिंह        | 5. अमरकांत               |                     |

स्फुट ग्रंथ— 1. हरिवंशराय बच्चन (क्या भूलें क्या याद करूँ) 2. महादेवी वर्मा (संस्मरण)

अंक विभाजन

|                                    |         |         |
|------------------------------------|---------|---------|
| 3 व्याख्या                         | 3X 10 = | 30 अंक  |
| 2 आलोचनात्मक प्रश्न                | 2X 15 = | 30 अंक  |
| 5 लघुत्तरीय प्रश्न                 | 5X 4 =  | 20 अंक  |
| 20 वस्तुनिष्ठ/अति लघुत्तरीय प्रश्न | 20X 1 = | 20 अंक  |
|                                    | कुल =   | 100 अंक |

इकाई विभाजन —

- |        |                                                  |
|--------|--------------------------------------------------|
| इकाई—1 | व्याख्या                                         |
| इकाई—2 | चन्द्रगुप्त, हानूश, गोदान एवं बाणभट्ट की आत्मकथा |
| इकाई—3 | निबंध, कहानी एवं चरितात्मक कथा आवारा मसीहा       |
| इकाई—4 | द्रुतपाठ के रचनाकार                              |
| इकाई—5 | वस्तुनिष्ठ (सभी पाठ्यक्रमों से)                  |

सहायक पुस्तकें—

1. हिन्दी नाटक उद्भव और विकास — डॉ. दशरथ ओझा
2. हिन्दी नाटक सिद्धांत और विवेचन — डॉ. गिरीश रस्तोगी
3. हिन्दी नाटक पुनर्मूल्यांकन — डॉ. सत्येन्द्र तनेजा
4. समसामयिक हिन्दी नाटकों में चरित्र सृष्टि — डॉ. जयदेव तनेजा
5. हिन्दी एकांकी की शिल्पविधि का विकास — डॉ. सिद्धनाथ कुमार
6. प्रेमचंद और उसका युग — डॉ. रामविलास शर्मा
7. गोदान के अध्ययन की समस्याएँ — डॉ. गोपाल राय
8. कहानी नई कहानी — डॉ. नामवर सिंह
9. नई कहानी की भूमिका — कमलेश्वर
10. शांति निकेतन में शिवालिक — डॉ. शिवप्रसाद सिंह
11. हजारी प्रसाद द्विवेदी — सं. विश्वनाथ तिवारी
12. कहानी, संवेदना और धरातल — राजेन्द्र यादव
13. कथाकार फणीश्वर नाथ रेणु — चंद्रमान सोनवणे
14. हिन्दी के आंचलिक उपन्यासों में जीवन सत्य — डॉ. इंदु प्रकाश पाण्डेय
15. हिन्दी उपन्यासों में आंचलिकता की प्रवृत्ति — डॉ. के.बुड़के
16. हिन्दी कहानी का रचना शास्त्र — डॉ. धनंजय वर्मा
17. हिन्दी कहानी का सफरनामा — डॉ. धनंजय वर्मा
18. प्रसाद के नाटकों का शास्त्रीय अध्ययन — जगन्नाथ प्रसाद शर्मा
19. रंग-दर्शन — नेमिचंद जैन
20. संस्मरण — महादेवी वर्मा
21. प्रेमचंद साहित्य में सूक्ति-सौष्ठव — राजकुमार पाण्डेय
22. हजारी प्रसाद द्विवेदी का साहित्य चिंतन — शशि पाण्डेय (शताक्षी प्रकाशन, चौबे कालोनी, रायपुर)
23. हिन्दी लघुकथा का विकास — डॉ. अंजली शर्मा (शताक्षी प्रकाशन, चौबे कालोनी, रायपुर)
24. भीष्म साहनी के उपन्यास और नाटक — डॉ. राकेश कुमार तिवारी (अभिषेक प्रकाशन, रायपुर)
25. नई कहानी और भीष्म साहनी — डॉ. राकेश कुमार तिवारी (शताक्षी प्रकाशन, चौबे कालोनी, रायपुर)

Arb  
23/06/18

डॉ. अनुसुईया अग्रवाल डी.लिट्.  
अध्यक्ष  
हिन्दी अध्ययन मंडल  
पं. रविशंकर शुक्ल विश्वविद्यालय  
रायपुर (छत्तीसगढ़) 492 001

पंचम प्रश्न पत्र  
जनपदीय भाषा और साहित्य  
(पेपर कोड-0317)

उद्देश्य एवं प्रस्तावना—

हिन्दी साहित्य मात्र खड़ी बोली तक सीमित नहीं है । उसकी अनेक विभाषाओं में आज भी पर्याप्त साहित्य सृजन किया जा रहा है । प्राचीन साहित्य तो मुख्यतः विभाषाओं में ही प्राप्त है । इनका पृथक अध्ययन कराने से इन विभाषाओं का उत्तरोत्तर विकास होगा । इस प्रश्न पत्र में क्षेत्रीय/जनपदीय भाषा में रचित अर्वाचीन साहित्य का अध्ययन आवश्यक है ।

पाठ्य विषय—

1. अ. छत्तीसगढ़ी भाषा एवं व्याकरण—

(भौगोलिक सीमा, नामकरण, भाषा का इतिहास, व्याकरण के अंग-उपांग)

ब. छत्तीसगढ़ी साहित्य की युग प्रवृत्तियाँ एवं इतिहास

2. छत्तीसगढ़ी कविता एवं कवि : (व्याख्या एवं विवेचना)

- (1) सुंदर लाल शर्मा (2) मुकटधर पाण्डेय (3) द्वारिका प्रसाद मिश्र  
(4) कुंज बिहारी चौबे (5) कपिल नाथ कश्यप (6) श्याम लाल चतुर्वेदी  
(7) गिरिवर दास वैष्णव (8) हरि ठाकुर (9) नारायण लाल परमार  
(10) डॉ. नरेन्द्र देव वर्मा

3. छत्तीसगढ़ी गद्य एवं गद्यकार – (व्याख्या एवं विवेचना)

- (1) सतवंतिन सुकवारा (श्याम लाल चतुर्वेदी)  
(2) सुवा हमर संगवारी (लखन लाल गुप्त)  
(3) गोरसी के गोठ (डॉ. पालेश्वर प्रसाद शर्मा)  
(4) ऑसू में फिले अचरा (केयूर भूषण)  
(5) कउवा, कबूतर अरु मनखे (परमानंद वर्मा)  
(6) गाय न गय, सुख होय हरू (लक्ष्मण मस्तुरिहा)  
(7) फिरतिन (मौसी दाई) – (शिवशंकर शुक्ल)

4. छत्तीसगढ़ी नाटक एवं एकांकी – (व्याख्या एवं विवेचना)

- (1) करमछड़हा (नाटक) – डॉ. खूबचंद बघेल
- (2) परेमा (एकांकी) – नन्दकिशोर तिवारी
- (3) सउत के डर (एकांकी) – टिकेन्द्र टिकरिहा

5. उपन्यास– (व्याख्या एवं विवेचना)

आवा– परदेशी राम वर्मा

द्रुत पाठ के लिए निम्नांकित कवियों का अध्ययन किया जाएगा । इनमें से किन्हीं पांच पर लघुत्तरीय प्रश्न पूछे जाएंगे ।

- |                     |                           |                         |
|---------------------|---------------------------|-------------------------|
| (1) नरसिंह दास      | (2) शुकलाल प्रसाद पाण्डेय | (3) लोचन प्रसाद पाण्डेय |
| (4) कपिलनाथ मिश्र   | (5) प्यारेलाल गुप्ता      | (6) लाल जगदलपुरी        |
| (7) लखनलाल वर्मा    | (8) कोदूराम दलित          | (9) डॉ. बल्देव          |
| (10) दानेश्वर वर्मा | (11) पवन दीवान            | (12) जीवन यदु           |
| (13) ऊधोराम झखमार   | (14) बट्टीविशाल परमानन्द  |                         |

अंक विभाजन –

|                                    |       |   |         |
|------------------------------------|-------|---|---------|
| 3 व्याख्या                         | 3X 10 | = | 30 अंक  |
| 2 आलोचनात्मक प्रश्न                | 2X 15 | = | 30 अंक  |
| 5 लघुत्तरीय प्रश्न                 | 5X 4  | = | 20 अंक  |
| 20 वस्तुनिष्ठ/अति लघुत्तरीय प्रश्न | 20X 1 | = | 20 अंक  |
|                                    | कुल   | = | 100 अंक |

इकाई विभाजन –

- इकाई-1 व्याख्या (01 कविता, 01 गद्यकथा, 01 नाटक एवं उपन्यास)
- इकाई-2 छत्तीसगढ़ी कविता एवं कवि  
छत्तीसगढ़ी गद्य एवं गद्यकार
- इकाई-3 छत्तीसगढ़ी नाटक, एकांकी एवं आवा (उपन्यास)
- इकाई-4 द्रुतपाठ के रचनाकार व छत्तीसगढ़ी साहित्य की युग प्रवृत्तियाँ एवं इतिहास (आमुख)

Angb

23/06/2018

डॉ. अनुसुईया अग्रवाल डी.लिट्.

अध्यक्ष

हिन्दी अध्ययन मंडल

पं. रविशंकर शुक्ल विश्वविद्यालय  
रायपुर (छत्तीसगढ़) 492 001

इकाई-5 भाषा एवं व्याकरण (वस्तुनिष्ठ)

पाठ्यपुस्तक छत्तीसगढ़ी भाषा और साहित्य- संपादक- डॉ. सत्यभामा आडिल ।

सहायक पुस्तकें:-

1. छत्तीसगढ़ी का उद्विकास - डॉ. नरेन्द्रदेव वर्मा
2. छत्तीसगढ़ी बोली व्याकरण और कोश - डॉ. कांतिकुमार
3. छत्तीसगढ़ी हलवी, भतरी भाषाओं का भाषावैज्ञानिक अध्ययन - भलाचंद्रराव तैलंग
4. छत्तीसगढ़ी परिचय- डॉ. बलदेव प्रसाद मिश्र
5. खूब तमाश - गोपाल प्रसाद मिश्र
6. छत्तीसगढ़ी लोकसाहित्य का अध्ययन - दयाशंकर शुक्ल
7. ए ग्रामर ऑफ छत्तीसगढ़ डायलेक्ट - हीरालाल काव्यापाध्याय  
अनुवादक ग्रियर्सन
8. स्व. लोचन प्रसाद पाण्डेय - प्यारेलाल गुप्त
9. छत्तीसगढ़ी लोकजीवन और लोकसाहित्य का अध्ययन- डॉ. शंकुतला वर्मा
10. छत्तीसगढ़ी का भाषा शास्त्रीय अध्ययन - डॉ. शंकुतला वर्मा
11. प्राचीन छत्तीसगढ़ी बोली - प्यारेलाल गुप्त
12. छत्तीसगढ़ी साहित्य का ऐतिहासिक अध्ययन - नंदकिशोर तिवारी
13. झोंपी - जमुना प्रसाद कसार
14. छत्तीसगढ़ी लोकसाहित्य और भाषा - डॉ. बिहारी लाल साहू
15. छत्तीसगढ़ के नव रत्न - रमेश नैयर (शताक्षी प्रकाशन,  
चौबे कालोनी, रायपुर)
16. छत्तीसगढ़ी लोक साहित्य: अर्थ और व्याप्ति - डॉ. अनुसूया अग्रवाल (शताक्षी प्रकाशन,  
चौबे कालोनी, रायपुर)
17. छत्तीसगढ़ के साहित्यकार - देवीप्रसाद वर्मा (शताक्षी प्रकाशन,  
चौबे कालोनी, रायपुर )
18. मानक छत्तीसगढ़ी व्याकरण - चंद्रकुमार चंद्राकर (शताक्षी प्रकाशन,  
चौबे कालोनी, रायपुर )
19. पैदल जिंदगी का कवि - डॉ. डुमन लाल ध्रुव
20. पुतरा-पुतरी के बिहाव - परदेसीराम वर्मा
21. अपूर्वा - डॉ. नरेन्द्रदेव वर्मा
22. पुतरा-पुतरी के बिहाव - परदेसीराम वर्मा

- |                                                         |                                                    |
|---------------------------------------------------------|----------------------------------------------------|
| 23. दुवारी -                                            | प्रदीप कुमार वर्मा                                 |
| 24. रत्ना -                                             | पारसनाथ देवांगन                                    |
| 25. छत्तीसगढ़ के सुराजी -                               | सुशील यदु                                          |
| 26. संत धर्मदास -                                       | डॉ. सत्यभामा आडिल                                  |
| 27. पिंवरी लिखे तोर भाग -                               | बद्रीविशाल परमानंद                                 |
| 28. लोकरंग 1, 2 -                                       | संपादक सुशील यदु                                   |
| 29. सोन चिरइया -                                        | हेमनाथ यदु                                         |
| 30. हमार छत्तीसगढ़ -                                    | सं. महावीर अग्रवाल                                 |
| 31. कौशल्यानंदन (छत्तीसगढ़ी अनुवाद) -                   | प्रभंजन शास्त्री                                   |
| 32. ऋतुसंहार (छत्तीसगढ़ी अनुवाद) -                      | रसिक बिहारी अवधिया                                 |
| 33. ररुहा सपनाय दारभात -                                | ऊधोराम झखमार                                       |
| 34. छत्तीसगढ़ी गजल -                                    | मुकुन्द कौशल                                       |
| 35. खोरबाहरा तोला गांधी बनाबो -                         | डॉ. राजेन्द्र सोनी                                 |
| 36. चोर ले जादा मोटरा अलवाईन -                          | डॉ. राजेन्द्र सोनी                                 |
| 37. छत्तीसगढ़ हाइकू -                                   | डॉ. राजेन्द्र सोनी                                 |
| 38. छत्तीसगढ़ी लोकोक्तियाँ और जनजीवन -                  | डॉ. अनुसूया अग्रवाल                                |
| 39. छत्तीसगढ़ के युग पुरुष त्यागमूर्ति ठाकुर प्यारेलाल- | रमेश नैयर (शताक्षी प्रकाशन चौबे कालोनी, रायपुर)    |
| 40. छत्तीसगढ़ की लोक कथाएँ-                             | जयप्रकाश मानस (शताक्षी प्रका. चौबे कालोनी, रायपुर) |

छत्तीसगढ़ी शब्दकोश-

- |                                      |                                  |
|--------------------------------------|----------------------------------|
| 1. छत्तीसगढ़ी शब्दकोश -              | डॉ. पालेश्वर वर्मा               |
| 2. छत्तीसगढ़ी शब्दकोश -              | डॉ. चन्द्रकुमार चन्द्राकर        |
| 3. छत्तीसगढ़ी भाषा, वियाकरण अउ कोस - | मंगत रवीन्द्र                    |
| 4. छत्तीसगढ़ी शब्दकोश -              | रमेश चन्द्र महरोत्रा एवं अन्य    |
| 5. छत्तीसगढ़ी व्यवहारिक शब्द कोश -   | डॉ. सत्यभामा आडिल                |
| 6. छत्तीसगढ़ी मुहावरा कोश -          | डॉ. रमेशचन्द्र महरोत्रा एवं अन्य |

पत्र-पत्रिकाएँ -

- |                      |                                                |
|----------------------|------------------------------------------------|
| 1. लोकाक्षर-         | छत्तीसगढ़ी त्रैमासिक पत्रिका, बिलासपुर         |
| 2. छत्तीसगढ़ी सेवक - | साप्ताहिक छत्तीसगढ़ी पत्र, सं. जागेश्वर प्रसाद |

3. देशबंधु का साप्ताहिक मड़ई अंक— सं. सुधा वर्मा
4. काहे रे नलिनी तू कुम्हलानी — वार्षिक पत्रिका, सं. परदेशीराम वर्मा
5. धरोहर (मासिक पत्रिका) — सं. दुर्गा प्रसाद पारकर ।

Arb  
23/06/18

डॉ. अनुसुईया अग्रवाल डी.लिट्.,  
अध्यक्ष  
हिन्दी अध्ययन मंडल  
पं. रविशंकर शुक्ल विश्वविद्यालय  
रायपुर (छत्तीसगढ़) 492 001



**2018-19**  
**एम.ए. (हिन्दी) अंतिम**

एम.ए. अंतिम हिन्दी में निम्नलिखित अनिवार्य प्रश्न पत्र होंगे ।

| क्रं. | प्रश्न पत्र | प्रश्न पत्र का नाम            | अंक | पेपर कोड |
|-------|-------------|-------------------------------|-----|----------|
| 1.    | षष्ठ        | काव्यशास्त्र एवं साहित्यालोचन | 100 | 0318     |
| 2.    | सप्तम       | भाषाविज्ञान एवं हिन्दी भाषा   | 100 | 0319     |
| 3.    | अष्टम       | प्रयोजनमूलक हिन्दी            | 100 | 0320     |
| 4.    | नवम         | भारतीय साहित्य                | 100 | 0321     |
| 5.    | दशम         | पत्रकारिता प्रशिक्षण          | 100 | 0322     |

**षष्ठ प्रश्न पत्र**  
**काव्यशास्त्र एवं साहित्यलोचन**  
**(पेपर कोड-0318)**

प्रस्तावना—

रचना के वैशिष्ट्य और मूल्यबोध के उद्घाटन के लिए काव्यशास्त्र और साहित्यलोचन का ज्ञान अपरिहार्य है । इनसे साहित्यिक समझ विकसित होती है । यह दृष्टि मिलती है जिसके आधार पर साहित्य के मर्म और मूल्यवत्ता की वास्तविक परख की जा सके । सामाजिक-सांस्कृतिक परिवेश के साथ रचना का आस्वाद प्राप्त करने, रचना को उसकी समग्रता में समझने और जाँचने-परखने के लिए भारतीय और पाश्चात्य काव्य शास्त्र तथा हिन्दी के निजी साहित्यलोचन का अध्ययन समीचीन है ।

पाठ्यविषय

- इकाई-1 संस्कृत काव्यशास्त्र : काव्य-लक्षण, काव्य हेतु, काव्य प्रयोजन, काव्य के प्रकार ।  
रस-सिद्धांत: रस का स्वरूप, रस निष्पत्ति, रस के अंग, साधारणीकरण, सहृदय की अवधारणा  
अलंकार सिद्धांत : मूल स्थापनाएँ, अलंकारों का वर्गीकरण ।  
रीति का सिद्धांत: रीति की अवधारण, काव्य-गुण, रीति एवं शैली,  
रीति सिद्धांत की प्रमुख स्थापनाएँ ।  
वक्रोक्ति-सिद्धांत: वक्रोक्ति की अवधारण, वक्रोक्ति के भेद, वक्रोक्ति एवं अभिव्यंजनावाद ।  
ध्वनि-सिद्धांत : ध्वनि का स्वरूप, ध्वनि- सिद्धांत की प्रमुख स्थापनाएँ,  
ध्वनि- काव्य के प्रमुख पद । भेद, गुणीभूत, व्यंग्य, चित्र-काव्य ।

औचित्य सिद्धांत : परमुख स्थापनाएँ, औचित्य के भेद

इकाई-2 - पाश्चात्य काव्यशास्त्र

प्लेटो : काव्य सिद्धांत

अरस्तू : अनुकरण- सिद्धांत, त्रासदी- विवेचन

लोजाइनस : उदात्त की अवधारणा ।

मैथ्यू ऑर्नल्ड : आलोचना का स्वरूप और प्रकार्य ।

आई.ए.रिचर्ड्स : रागात्मक अर्थ, संवेगों का संतुलन, व्यवहारिक आलोचना ।

कॉलरिज

डी.एस. इलियट

इकाई-3 (क) हिन्दी कवि-आचार्यों का काव्यशास्त्रीय, चिंतन, लक्षण, काव्य परंपरा एवं काव्य शिक्षा-

- (1) केशवदास (2) देव (3) रामचन्द्र शुक्ल (4) नंददुलारे वाजपेयी  
(5) डॉ. रामविलास शर्मा ।

(ख) हिन्दी आलोचना की प्रमुख प्रवृत्तियाँ :

शास्त्रीय, व्यक्तिवादी, ऐतिहासिक तुलनात्मक, प्रभाववादी, मनोविश्लेषणवादी, सौंदर्यशास्त्रीय, शैली वैज्ञानिक और समाजशास्त्रीय ।

(ग) व्यावहारिक समीक्षा, काव्यांश की स्वविवेक के अनुसार व्याख्या ।

इकाई-4 सिद्धांत और वाद-अभिजात्यवाद, स्वच्छंदावाद, अभिव्यंजनावाद, मार्क्सवाद, मनोविश्लेषण तथा अस्तित्व वाद ।

इकाई विभाजन

अंक विभाजन

- |                                                    |        |
|----------------------------------------------------|--------|
| 1. संस्कृत काव्य शास्त्र                           | 15 अंक |
| 2. पाश्चात्य काव्यशास्त्र                          | 15 अंक |
| 3. (क) हिन्दी कवि आचार्यों का काव्यशास्त्रीय चिंतन | 15 अंक |
| (ख) हिन्दी आलोचना की प्रमुख प्रवृत्तियाँ           |        |
| (ग) व्यावहारिक समीक्षा                             |        |
| 4. सिद्धांत और वाद                                 | 15 अंक |

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डॉ. अनुसुईया अग्रवाल डी.लिट्.

अध्यक्ष

हिन्दी अध्ययन मंडल

पं. रविशंकर शुक्ल विश्वविद्यालय  
रायपुर (छत्तीसगढ़) 492 001

|    |                                    |      |         |
|----|------------------------------------|------|---------|
| 5. | 5 लघुत्तरीय प्रश्न                 | 5X4  | 20 अंक  |
| 6. | 20 वस्तुनिष्ठ/अति लघुत्तरीय प्रश्न | 20X1 | 20 अंक  |
|    |                                    | कुल  | 100 अंक |

संदर्भ ग्रन्थ:-

|     |                              |   |                           |
|-----|------------------------------|---|---------------------------|
| 1.  | साहित्य के प्रमुख पक्ष       | - | डॉ. राममूर्ति त्रिपाठी    |
| 2.  | रस सिद्धांत                  | - | डॉ. नगेन्द्र              |
| 3.  | रीति काव्य की भूमिका         | - | डॉ. नगेन्द्र              |
| 4.  | भारतीय काव्यशास्त्री         | - | डॉ. उदयभान सिंह           |
| 5.  | हिन्दी की सामाजिक समीक्षा    | - | डॉ. रामाधार शर्मा         |
| 6.  | हिन्दी आलोचना के आधार स्तम्भ |   |                           |
| 7.  | समीक्षा के प्रतिमान          | - | डॉ. निर्मला जैन           |
| 8.  | पाश्चात्य काव्य शास्त्र      | - | डॉ. विजय बहादुर सिंह      |
| 9.  | पाश्चात्य समीक्षा के मानदंड  | - | प्रो. प्रमोद वर्मा        |
| 10. | भारतीय और पाश्चात्य समीक्षा  | - | डॉ. गणेश खरे              |
| 11. | मार्क्सवादी साहित्य चिंतन    | - | डॉ. शिव कुमार मिश्रा      |
| 12. | आलोचना के नये मान            | - | कर्ण सिंह चौहान           |
| 13. | कला की कसौटी                 | - | निर्मला वर्मा             |
| 14. | यथार्थवाद                    | - | डॉ. शिवकुमार मिश्रा       |
| 15. | दूसरी परम्परा की खोज         | - | डॉ. नामवर सिंह            |
| 16. | समीक्षा के प्रतिमान          | - | डॉ. गंगाचरण त्रिपाठी      |
| 17. | नया साहित्य नये प्रश्न       | - | आचार्य नंद दुलारे वाजपेयी |

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डॉ. अनुसुईया अग्रवाल डी.लिट्.  
अध्यक्ष  
हिन्दी अध्ययन मंडल  
पं. रविशंकर शुक्ल विश्वविद्यालय  
रायपुर (छत्तीसगढ़) 492 001

सप्तम प्रश्न पत्र  
भाषा विज्ञान एवं हिन्दी भाषा  
(पेपर कोड-0319)

प्रस्तावना—

साहित्य आद्यंत एक भाषिक निर्मित है । साहित्य के गंभीर अध्ययन के लिए भाषिक व्यवस्था का सुस्पष्ट सर्वांगिण ज्ञान अपरिहार्य है ।

भाषा विज्ञान भाषा की वस्तुनिष्ठ अध्ययन प्रणाली के रूप में भाषिक इकाईयों तथा भाषा संरचना के विभिन्न स्तरों पर इनके अंतः संबंधों के विन्यास को आलोकित कर न केवल अध्येता को भाषिक अंतर्दृष्टि देता है अपितु भाषा विषयक विवेचन के लिए एक निरूपक भाषा भी प्रदान करता है । मूल भाषा व्यवस्था पर आरोपित द्वितीय साहित्यक व्यवस्था की भाषिक प्रकृति की स्वीकृति प्राचीन भारतीय एवं अधुनातन पाश्चात्य साहित्य चिंतन में समान रूप से लक्षणीय है । कहने की आवश्यकता नहीं कि भाषा के साहित्येत्तर, प्रयोजनमूलक रूपों के अध्ययन में भी भाषा वैज्ञानिक चिंतन का लाभ उतना ही महत्वपूर्ण है ।

भाषा वैज्ञानिक आधार पर हिन्दी भाषा का ऐतिहासिक विकासक्रम, भौगोलिक विस्तार, स्वरूप, विविधरूपता तथा हिन्दी में कम्प्यूटर सुविधाओं विषयक जानकारी एवं देवनागरी के वैशिष्ट्य विकास और मानवीकरण का विवरण हिन्दी के अध्येता के लिए अत्यंत उपयोगी है ।

पाठ्य विषय—

(क) भाषा विज्ञान

1. भाषा और भाषा विज्ञान, भाषा की परिभाषा और अभिलक्षण, भाषा-व्यवस्था और भाषा व्यवहार, भाषा-संरचना और भाषिक-प्रकार्य, भाषा विज्ञान-स्वरूप एवं व्याप्ति, अध्ययन की दिशाएँ-वर्णात्मक, ऐतिहासिक और तुलनात्मक ।
2. स्वनप्रक्रिया-स्वनविज्ञान का स्वरूप और शाखाएँ वागवयव और उनके कार्य, स्वनों का वर्गीकरण, स्वनिक परिवर्तन ।

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डॉ. अनुसुईया अग्रवाल डी.लिट्.  
अध्यक्ष  
हिन्दी अध्ययन मंडल  
डॉ. रविशंकर शुक्ल विश्वविद्यालय  
राजपुर (जबलपुर) 492 001

3. व्याकरण—रूप—प्रक्रिया का स्वरूप और शाखाएँ, रूपिम की अवधारणा और भेद, मुक्त—आबद्ध अर्थदर्शी और संबंधी दर्शी, संबंधदर्शी रूपिम के भेद और प्रकार्य । वाक्य की अवधारणा, वाक्य के भेद, वाक्य विश्लेषण ।
4. अर्थाविज्ञान— अर्थ की अवधारणा, शब्द और अर्थ का संबंध, अर्थ—परिवर्तन ।
5. साहित्य और भाषाविज्ञान—साहित्य के अध्ययन में भाषाविज्ञान के अंगों की उपयोगिता ।

(ख) हिन्दी भाषा

1. हिन्दी की ऐतिहासिक पृष्ठभूमि, प्राचीन भारतीय आर्यभाषाएँ—वैदिक तथा लौकिक संस्कृत और उसकी विशेषताएँ । मध्यकालिन भारतीय आर्यभाषाएँ—पालि, प्राकृत—शौरसेनी, अर्धमागधी, मागधी, अपभ्रंश और उनकी विशेषताएँ । आधुनिक भारतीय आर्यभाषा—समूह और उनका वर्गीकरण ।
2. हिन्दी का भौगोलिक विस्तार, हिन्दी की उपभाषाएँ, पश्चिमी हिन्दी, पूर्वी हिन्दी, राजस्थानी, बिहारी तथा पहाड़ी और उनकी बोलियाँ । खड़ी बोली, ब्रज और अवधी की विशेषताएँ ।
3. हिन्दी का भाषिक स्वरूप—हिन्दी शब्द रचना—उपसर्ग, प्रत्यय, समास । रूपरचना लिंग, वचन और कारक व्यवस्था के संदर्भ में हिन्दी की संज्ञा, सर्वनाम, विशेषण और क्रियारूप । हिन्दी काव्य, रचना—पदक्रम और अन्विति ।
4. हिन्दी के विविध रूप—संपर्क भाषा, राष्ट्रभाषा, राज भाषा के रूप में हिन्दी, माध्यम—भाषा, संचार भाषा, हिन्दी की संवैधानिक स्थिति ।
5. हिन्दी में कम्प्यूटर सुविधाएँ — आंकड़ा—संसाधन और शब्द—संसाधन, वर्तनी—शोधक, मशीनी अनुवाद, हिन्दी भाषा शिक्षण ।
6. देवनागरी लिपि—विशेषताएँ और मानवीकरण ।

इकाई विभाजन—

- इकाई—1 भाषा और विज्ञान, स्वन—प्रक्रिया  
 इकाई—2 व्याकरण  
 इकाई—3 अर्थ विज्ञान, साहित्य और भाषाविज्ञान ।

इकाई-4 हिन्दी की ऐतिहासिक पृष्ठभूमि, हिन्दी का भौगोलिक विस्तार, हिन्दी का भाषिक स्वरूप ।

इकाई-5 हिन्दी के विविध रूप, देवनागरी लिपि, हिन्दी में कम्प्यूटर की सुविधाएं ।

अंक विभाजन -

|                                   |                       |        |         |
|-----------------------------------|-----------------------|--------|---------|
| भाषा विज्ञान                      | (2 आलोचनात्मक प्रश्न) | 2X15 = | 30 अंक  |
| हिन्दी भाषा                       | (2 आलोचनात्मक प्रश्न) | 2X15 = | 30 अंक  |
| 5 लघुत्तरीय प्रश्न                |                       | 5X4 =  | 20 अंक  |
| 20 वस्तुनिष्ठ/अति लघुत्तरी प्रश्न |                       | 20X1 = | 20 अंक  |
|                                   | कुल                   |        | 100 अंक |

संदर्भ ग्रंथ-

1. भारतीय आर्य भाषा और हिन्दी - सुनीति कुमार चटर्जी
2. भारतीय भाषाएँ और भाषा संबंधी समस्याएँ -
3. हिन्दी भाषा का इतिहास - धीरेन्द्र वर्मा
4. नागरी अंक और अक्षर - धीरेन्द्र वर्मा
5. सामान्य भाषा विज्ञान - बाबूराम सक्सेना
6. भाषाविज्ञान और हिन्दी भाषा - भोलानाथ तिवारी
7. हिन्दी भाषाविज्ञान - मनमोहन गौतम (सूर्या प्रकाशन)
8. भाषाविज्ञान के सिद्धांत और हिन्दी भाषा - द्वारिका प्रसाद सक्सेना (भीमर्ष प्रकाशन)
9. भाषाविज्ञान और भाषा - डॉ. कपिलदेव द्विवेदी
10. भाषाविज्ञान - देवेन्द्रनाथ शर्मा
11. भाषा शास्त्र - उदयनारायण तिवारी
12. हिन्दी भाषा और बोलियों का अंतर संबंध - सं.डॉ. सरोज मिश्रा  
(शांति प्रकाशन, इलाहाबाद)
13. हिन्दी का नवीनतम बीज-व्याकरण - रमेशचन्द्र मेहरोत्रा एवं चितरंजनकर
14. प्रयोजन मूलक हिन्दी - बालेन्दु शेखर तिवारी
15. हिन्दी भाषा की संरचना के अभ्यास - रवीन्द्रनाथ श्रीवास्तव

अष्टम प्रश्न पत्र  
प्रयोजनमूलक हिन्दी  
(पेपर कोड- 0320)

प्रस्तावना—

भाषा मानव जीवन की अनिवार्य सामाजिक वस्तु और व्यावहारिक चेतना है । जिसके दो मुख्य आयाम या प्रकार्य हैं । सौन्दर्यपरक और प्योजनपूरक भाषा के प्रयोजनपरक आवास का संबंध हमारी सामाजिक आवश्यकताओं और जीवन व्यवहार से है ओर व्यक्तिपरक होकर भी जो समाज-सापेक्ष सेवा माध्यम (सर्विस-टूल्स) के रूप में प्रयुक्त होती है । उत्तर आधुनिक काल में जीवन और समाज की विभिन्न आवश्यकताओं और दायित्वों की पूर्ति के लिए विभिन्न व्यवहार क्षेत्र में उपयोग की जाने वाली प्रयोजनपरक हिन्दी का अध्ययन अति अपेक्षित है । इसके विविध आयामों से न केवल रोजगार या जीविका की समस्याएं हल होंगी अपितु राष्ट्र भाषा तथा राजभाषा का संस्कार भी दृढ़ होगा ।

पाठ्य विषय:—

इकाई-1 खंड-क : कामकाजी हिन्दी

- हिन्दी के विभिन्न रूप-सर्जनात्मक भाषा, संचार-भाषा, राजभाषा, माध्यम-भाषा, मातृभाषा ।
- कार्यालयीन हिन्दी (राजभाषा) के प्रमुख प्रकार्य : प्रारूपण, पत्र लेखन, संक्षेपण, पल्लवन, टिप्पणी ।
- पारिभाषिक शब्दावली- स्वरूप एवं महत्व, पारिभाषिक शब्दावली-निर्माण के सिद्धांत ।
- ज्ञान-विज्ञान के विभिन्न क्षेत्रों की पारिभाषिक शब्दावली (निर्धारित शब्द)

हिन्दी कंप्यूटिंग

- कम्प्यूटर: परिचय, रूपरेखा, उपयोग तथा क्षेत्र वेब-पब्लिशिंग का परिचय ।
- इंटरनेट संपर्क- उपकरणों का परिचय, प्रकार्यात्मक रख-रखाव एवं इंटरनेट समय मितव्ययिता के सूत्र ।
- वेब-पब्लिशिंग
- इंटर एक्सप्लोइट अथवा नेटस्कोप ।

- लिंक, ब्राउजिंग, ई-मेल भेजना/प्राप्त करना, हिन्दी के प्रमुख इंटरनेट पोर्टल, डाउनलोडिंग व अपलोडिंग हिन्दी साफ्टवेयर, पैकेज ।

### इकाई-2 खंड - स्व- पत्रकारिता : स्वरूप एवं विभिन्न प्रकार ।

हिन्दी पत्रकारिता का संक्षिप्त इतिहास

- समाचार- लेखन - कला
- संपादन के आधार भूत तत्व ।
- व्यवहारिक प्रूफ - शोधन
- शीर्षक की संरचना, लीड, इंट्रो एवं शीर्षक-संपादन, संपादकीय लेखन
- पृष्ठ सज्जा
- साक्षात्कार, पत्रकार-वार्ता एवं प्रेस-प्रबंधन
- प्रमुख प्रेस - कानून एवं आचार-संहिता ।

### इकाई 3 खंड- ग: मीडिया - लेखन

- जनसंचार : प्रौद्योगिक एवं चुनौतियाँ
- विभिन्न जनसंचार-माध्यमों का स्वरूप-मुद्रण, श्रव्य, दृश्य-श्रव्य, इंटरनेट ।
- श्रव्य माध्यम (रेडियो)
- मौखिक भाषा की प्रकृति । समाचार लेखन एवं वाचन । रेडियो नाटक । उद्घोषणा लेखन । विज्ञापन लेखन ।
- फीचर एवं रिपोर्ताज ।
- दृश्य - श्रव्य माध्यम (फिलम, टेलीविजन एवं विडियो)
- दृश्य माध्यमों में भाषा की प्रकृति ।
- दृश्य एवं श्रव्य सामग्री का सामंजस्य । पार्श्व वाचन (वायस ओवर)
- पटकथा लेखन - टेली ड्रामा/डाक्यूमेन्ट्री ड्रामा ।
- संवाद- लेखन । साहित्य की विधाओं का दृश्य माध्यमों में रूपांतरण । विज्ञापन की भाषा ।
- इंटरनेट : सामग्री - सृजन (Content Creation)



#### इकाई 4 खंड - घ : अनुवाद : सिद्धांत एवं व्यवहार

- अनुवाद का स्वरूप, क्षेत्र प्रक्रिया एवं प्रविधि
- हिन्दी की प्रयोजनीयता में अनुवाद की भूमिका
- कार्यालयीन हिन्दी और अनुवाद
- जन संचार माध्यमों का अनुवाद
- विज्ञापन में अनुवाद
- वैचारिक : साहित्य का अनुवाद
- वाणिज्यिक अनुवाद
- वैज्ञानिक, तकनीकी तथा प्रौद्योगिकी क्षेत्रों में अनुवाद
- विधि-साहित्य की हिन्दी और अनुवाद, व्यवहारिक अनुवाद अभ्यास ।

कार्यालयी अनुवाद : कार्यालयीन एवं प्रशासनिक शब्दावली, प्रशासनिक प्रयुक्तियाँ, पदनाम, विभाग आदि

- पत्रों के अनुवाद
- पदनामों, अनुभागों, दस्तावेजों, प्रतिवेदनों के अनुवाद
- बैंक - साहित्य के अनुवाद का अभ्यास
- विधि - साहित्य के अनुवाद का अभ्यास
- साहित्यिक - अनुवाद के सिद्धांत एवं व्यवहार : कविता, कहानी नाटक ।
- सारानुवाद
- दुभाषिया प्रविधि
- अनुवाद पुनरीक्षण एवं मूल्यांकन

इकाई विभाजन

अंक विभाजन

इकाई-1-क- कामकाजी हिन्दी व हिन्दी कम्प्यूटिंग

15 अंक

इकाई-2-ख- पत्रकारिता

15 अंक

इकाई-3-ग- मीडिया लेखन

15 अंक

इकाई-4- अनुवाद

15 अंक

इकाई-5-लघुत्तरीय प्रश्न

5X4 =

20 अंक

इकाई-6- 20 वस्तुनिष्ठ प्रश्न/अतिलघुत्तरीय प्रश्न 20X1 = 20 अंक

संदर्भ ग्रन्थ -

1. प्रयोजनात्मक हिन्दी - प्रो. सूर्यप्रसाद दीक्षित एवं सिंह (सुलभ प्रकाशन)
2. वाणिज्यिक हिन्दी - आर.बी.नारायण (ज्ञानोदय प्रकाशन)
3. व्यावहारिक हिन्दी - एन.डी.पालीवाल (मानीषा प्रकाशन, दिल्ली)
4. प्रशासनिक हिन्दी - पुष्पा कुमारी (क्लासिकल पब्लिक कम्पनी)
5. अच्छी हिन्दी - रामचन्द्र वर्मा
6. जनसंचार माध्यमों में हिन्दी - डॉ. चन्द्रकुमार (क्लासिकल पब्लिक कंपनी)
7. बैंकिंग हिन्दी पत्राचार, स्वरूप एवं सम्प्रेषण - डॉ. निश्चल एवं सिंह (किताब घर, नई दिल्ली)
8. पत्रकारिता के छः दशक - जगदीश प्रसाद चतुर्वेदी (साहित्य संगम, इलाहाबाद)
9. हिन्दी पत्रकारिता का वृहद इतिहास - अर्जुन तिवारी (वाणी प्रकाशन)
10. पत्रिका संपादन कला - डॉ. रामचन्द्र तिवारी (आलेख प्रकाशन)
11. हिन्दी पत्रकारिता - कृष्ण बिहारी मिश्र (भारतीय ज्ञानपीठ प्रकाशन)
12. भारतीय समाचार पत्रों का संगठन और प्रबन्ध- डॉ. सुकमाल जैन, म.प्र.हि.ग्र.अ.
13. जनमाध्यम और पत्रकारिता - प्रवीण दीक्षित (सहयोगी साहित्य संस्थान)
14. पत्रकारिता का इतिहास एवं जनसंचार माध्यम- डॉ. संजीव भानानत (यू.प्र. रायपुर)
15. वृहद् हिन्दी पत्र-पत्रिका कोश - सूर्य प्रसाद दीक्षित
16. पत्रकारिता संदर्भ कोश - डॉ. सुधीन्द्र, डॉ. रामप्रकाश (वाणी प्रकाशन)
17. पत्रकारिता के विविध आयाम - वेद प्रताप वैदिक
18. जनमाध्यम और पत्रकारिता - डॉ. प्रवीण दीक्षित (सहयोगी साहित्य संस्थान)
19. कम्प्यूटर अध्ययन : एक परिचय - नरेन्द्र सिंह पटेल (शताक्षी प्रकाशन, चौबे कालोनी, रायपुर)
20. इंटरनेट : एक जानकारी - एस.मक्कड़ (शताक्षी प्रकाशन, चौबे कालोनी, रायपुर)
21. दूरदर्शन: हिन्दी के प्रयोजनमूलक विविध प्रयोग- डॉ. कृष्ण कुमार रत्तू (मीनाक्षी प्रकाशन, जयपुर)
22. कम्प्यूटर के भाषिक अनुप्रयोग - विजय मल्होत्रा (वाणी प्रकाशन)
23. कम्प्यूटर एप्लीकेशन - गौरव अग्रवाल (शिवा प्रकाशन)
24. कम्प्यूटर क्या, क्यों और कैसे - रामबंशल विश्वविद्याचार्य (वाणी प्रकाशन)
25. अनुवाद के सिद्धांत - सुरेश कुमार
26. अनुवाद सिद्धांत की रूपरेखा - सुरेश कुमार
27. अनुवाद बोध - डॉ. गार्गीगुप्त (भारतीय अनुवाद परिषद, दिल्ली)

28. साहित्यानुवाद – संवाद और संवेदना – डॉ. आरसू (वाणी प्रकाशन)  
 29. हिन्दी में व्यावहारिक अनुवाद – आलोक रस्तोगी (सुमीत प्रकाशन)  
 30. प्रयोजनमूलक हिन्दी – (स.) डॉ. चितरंजन कर एवं डॉ. सुधीर शर्मा

**नवम् प्रश्न पत्र**  
**भारतीय साहित्य**  
**(पेपर कोड- 0321)**

**प्रस्तावना –**

भारतीय भाषाओं में हिन्दी भाषा और साहित्य का स्थान अन्य प्रांतीय भाषाओं की तुलना में अपेक्षाकृत अधिक महत्वपूर्ण है, इसलिए हिन्दी साहित्याध्ययन को अधिकाधिक गंभीर तथा प्रशस्त बनाना अत्यंत आवश्यक है। एक समेकित भारतीय साहित्य की रूपरचना के लिए हिन्दी का भारतीय संदर्भ सर्वथा प्रासंगिक है। इस दृष्टि से हिन्दी के स्नातकोत्तर विद्यार्थियों के लिए भारतीय भाषाओं के साहित्य का ज्ञान अनिवार्य है। तभी उनके ज्ञान क्षितिज एवं सांस्कृतिक दृष्टि का विकास होगा। यही नहीं, इससे हिन्दी अध्ययन का अंतरंग विस्तार भी होगा। इस प्रश्नपत्र के चार खंड होंगे। प्रत्येक खंड से एक-एक प्रश्न का उत्तर देना अनिवार्य होगा।

**पाठ्यविषय–**

**प्रथम खंड –**

1. भारतीय साहित्य का स्वरूप
2. भारतीय साहित्य के अध्ययन की समस्याएँ
3. भारतीय साहित्य में आज के भारत का बिंब
4. भारतीयता का समाज शास्त्र
5. हिन्दी साहित्य में भारतीय मूल्यों की अभिव्यक्ति।

**द्वितीय खंड**

इसके अंतर्गत हिन्दीतर साहित्य का अध्ययन अपेक्षित है, जो तीन वर्गों में विभाजित है–

1. दक्षिणात्य भाषा वर्ग में मलयालम
2. पूर्वांचल भाषा वर्ग में बंगला
3. पश्चिमोत्तर भाषा वर्ग में मराठी

**निर्देश–**

1. प्रत्येक विद्यार्थी इन तीन विकल्पों में से एक भाषा का चयन करेगा, बशर्ते वह भाषा उसकी अपनी क्षेत्रीय भाषा से भिन्न भाषा वाले वर्ग से संबंधित हो।
2. विद्यार्थी एक भाषा-वर्ग (मलयालम/बंगाली/मराठी) में से किसी एक के साहित्य के इतिहास का अध्ययन करेगा।

A7b  
23/06/18

### तृतीय खंड -

इस खंड के अंतर्गत तुलनात्मक अध्ययन अपेक्षित है । इसमें द्वितीय खंड में निर्धारित किसी एक हिन्दीतर भाषा साहित्य के साथ हिन्दी को जोड़कर अध्ययन करना होगा ।

### चतुर्थ खंड-

इसके अंतर्गत एक उपन्यास, एक कविता संग्रह, एक नाटक का आलोचनात्मक अध्ययन किया जायेगा । प्रश्न आलोचनात्मक पूछे जाएँगे । तीनों विधाओं पर एक-एक प्रश्न पूछे जाएँगे । तीनों प्रश्नों के समान रूप से 5-5 अंक रखे जाएँगे ।  
उपन्यास अग्निगर्भ (बंगला महश्वेता देवी)

कविता संग्रह कोच्चि के दरख्त (मलयालम के.जी.शंकरपिल्लै)

नाटक हयवदन (गिरीश कर्नाड)

| इकाई-विभाजन                                          | अंक विभाजन |
|------------------------------------------------------|------------|
| इकाई-1 खंड एक                                        | 15 अंक     |
| इकाई-2 खंड दो                                        | 15 अंक     |
| इकाई-3 खंड तीन                                       | 15 अंक     |
| इकाई-4 खंड चार                                       | 15 अंक     |
| इकाई-5 लघुत्तरीय प्रश्न (5X4)                        | 20 अंक     |
| इकाई-6 वस्तुनिष्ठ प्रश्न/अति लघुत्तरीय प्रश्न (20X1) | 20 अंक     |

### पाठ्य पुस्तक-

उपन्यास-1 अग्नि गर्भ (बंगला) - महाश्वेता देवी (प्रकाशक- किताब क्लब, राधाकृष्ण प्रकाशन)

कविता 2. कोच्चि के दरख्त (मलयालम) के.जी. शंकरपिल्लै (प्रकाशक वाणी प्रकाशन, 21 ए, नई दिल्ली दरियागंज) ।

नाटक 3. हयवदन (कर्नाड) गिरीश कर्नाड (प्रकाशक, राधाकृष्ण प्रकाशन, 2/38 अंसारी मार्ग, दरियागंज नई दिल्ली, 110002)

### संदर्भ एवं सूची:-

1. इक्कीस बंगला कहानियाँ- नेशनल बुक ट्रस्ट, इंडिया ए-5, ग्रीन पार्क, नई दिल्ली, 110016,
2. समसामयिक हिन्दी कहानियाँ - डॉ. धनंजय वर्मा ।
3. मलयालम साहित्य - परख और पहचान, प्रो. आर. सुरेन्द्रन, हिन्दी विभाग, कालीकट, वि. वि. केरल ।
4. राष्ट्रीय चेतना और मलयालम साहित्य प्रो. आर. सुरेन्द्रन, हिन्दी विभाग, कालीकट वि.वि. केरल

5. मराठी भाषा और साहित्य – राज मल बोरा, प्रकाशक नेशनल पब्लिशिंग हाऊस, 2/35 अंसारी रोड, दरियागंज नई दिल्ली 110002 ।
6. मलयालम साहित्यकारों से साक्षात्कार – प्रो. आर.सुरेन्द्रन, हिन्दी विभाग, कालीकट वि.वि., केरल ।
7. बंगला भाषा और साहित्य का इतिहास – भारतीय भाषा संस्थान, इलाहाबाद ।
8. भारतीय साहित्य कोश – सं. डॉ. नगेन्द्र, नेशनल पब्लिशिंग हाऊस, नई दिल्ली ।
9. भारतीय साहित्य – सं. डॉ. नगेन्द्र नेशनल पब्लिशिंग हाऊस, नई दिल्ली ।
10. भारतीय साहित्य एनमाला सं. कृष्णदयाल भार्गव, वैज्ञानिक तथा तकनीकी शब्दावली आयोग, शिक्षा तथा युवक सेवा मंत्रालय भारत सरकार, नई दिल्ली ।
11. भारतीय साहित्य के इतिहास की समस्याएँ – डॉ. रामविलास शर्मा ।
12. भारतीय भाषाओं के साहित्य का इतिहास– केन्द्रीय हिन्दी निदेशालय, दिल्ली ।
13. भारतीय साहित्य अवधारणा समन्वय एवं सादृश्यता– जगदीश गुप्त (संघवी प्रकाशन)

#### पत्रिकाएँ–

1. सद्भावना दर्पण– सं. गिरीश पंकज, रायपुर
2. छत्तीसगढ़ टुडे, रायपुर
3. अक्षर पर्व– देशबंधु प्रकाशन, रायपुर
4. राष्ट्र सेतु – रायपुर

### दशम प्रश्न पत्र पत्रकारिता–प्रशिक्षण (पेपर कोड– 0322)

#### प्रस्तावना–

पत्रकारिता आज जीवन–समाज की धड़कन बन गई है । सिमटते विश्व में स्नायु–तंतुओं के समान काम कर रही है । समाचार पत्र से लेकर साप्ताहिक, पाक्षिक, त्रैमासिक, वार्षिक पत्रिकाओं, प्रिंट मीडिया, इलेक्ट्रॉनिक, इंटरनेट आदि में इसका विकसित रूप देखा जा सकता है । इसके बिना आज आदमी का रहना कठिन है । सात्य के साथ–साथ रोजगारपारकता की आकांक्षा की पूर्ति भी इससे होती है । पुनर्जागरण, स्वतंत्रता, समता, बंधुत्व नारी तथा दलित जागरण में इसकी क्रांतिकारी भूमिका रही है । अतः इसका अध्ययन आज की अनिवार्यता बन जाती है ।

#### पाठ्यविषयः–

1. पत्रकारिता का स्वरूप और प्रमुख प्रकार ।
2. विश्व पत्रकारिता का उदय, भारत में पत्रकारिता का आरंभ ।
3. हिन्दी पत्रकारिता का उद्भव और विकास ।
4. समाचार पत्रकारिता के मूल तत्व– समाचार संकलन तथा लेखन के मुख्य आयाम ।

5. संपादन कला के सामान्य सिद्धांत— शीर्षकीकरण, पृष्ठ-विन्यास, आमुख और समाचार पत्र की प्रस्तुति प्रक्रिया ।
6. समाचार पत्रों के विभिन्न स्तंभों की योजना ।
7. दृश्य सामग्री (कार्टून, रेखाचित्र, ग्राफिक्स) की व्यवस्था और फोटो पत्रकारिता ।
8. समाचार के विभिन्न स्रोत ।
9. संवाददाता की अर्हता, श्रेणी एवं कार्यपद्धति ।
10. पत्रकारिता से संबंधित लेखन— संपादकीय, फीचर, रिपोतार्ज, साक्षात्कार, खोजी समाचार, अनुवर्तन (फालोअप) आदि की प्रविधि ।
11. इलेक्ट्रॉनिक मिडिया की पत्रकारिता — रेडियो, टी.वी. वीडियो, केबल, मल्टी मीडिया और इंटरनेट की पत्रकारिता ।
12. प्रिंट पत्रकारिता और मुद्रणकला, प्रूफ शोधन, ले आउट तथा पृष्ठ सज्जा ।
13. पत्रकारिता का प्रबंधन प्रशासनिक व्यवस्था, बिक्री तथा विवरण व्यवस्था ।
14. भारतीय संविधान, सूचनाधिकारी एवं मानवाधिकार ।
15. मुक्त प्रेस की अवधारणा ।
16. लोक-संपर्क तथा विज्ञापन ।
17. प्रसारभारती तथा सूचना प्रौद्योगिकी ।
18. प्रेस-संबंधी प्रमुख कानून तथा आचार-संहिता ।
19. प्रजातांत्रिक व्यवस्था में चतुर्थ स्तंभ के रूप में पत्रकारिता का दायित्व ।

#### इकाई-विभाजन

| इकाई-विभाजन |                                           | अंक    | विभाजन  |
|-------------|-------------------------------------------|--------|---------|
| इकाई-1      | 5 तक                                      | 15 अंक |         |
| इकाई-2      | 6 से 10 तक                                | 15 अंक |         |
| इकाई-3      | 11 से 15 तक                               | 15 अंक |         |
| इकाई-4      | 16 से 19 तक                               | 15 अंक |         |
| इकाई-5      | 5 लघुत्तरीय प्रश्न                        | 5X4    | 20 अंक  |
| इकाई -6     | 20 वस्तुनिष्ठ प्रश्न/अति लघुत्तरीय प्रश्न | 20X1   | 20 अंक  |
|             |                                           | कुल    | 100 अंक |

#### संदर्भ-सूची

1. पत्रकारिता के छह दशक — जगदीश प्रसाद चतुर्वेदी, साहित्य संगम इलाहाबाद
2. पत्रिका संपादन कला — डॉ. रामचंद्र तिवारी, आलेख प्रकाशन ।
3. समाचार पत्र, मुद्रण और साज-सज्जा — श्याम सुंदर शर्मा, म.प्र.हि.ग्रंथ अका. ।
4. हिन्दी पत्रकारिता का वृहद् इतिहास — अर्जुन तिवारी, वाणी प्रकाशन ।
5. समाचार पत्र/व्यवस्थापन — अनंत गोपाल शेवड़े, म.प्र.हि.ग्रंथ अका.
6. भाषायी पत्रकारिता और जनसंचार — डॉ. विष्णु पंकज, विवेक पब्लि. रायपुर
7. हिन्दी पत्रकारिता — कृष्ण बिहारी मिश्र, भारतीय ज्ञानपीठ प्रकाशन ।
8. पत्रकारिता का परिपेक्ष्य — जगदीश प्रसाद चतुर्वेदी, साहित्य संगम ।
9. हिन्दी पत्रकारिता के गौरव — बांके बिहारी भटनागर, हरिवंश राय बच्चन,

आत्माराम एंड सन्स, दिल्ली ।

10. भारतीय समाचार पत्रों का संगठन और प्रबंधन – डॉ. सुकमाल जैन
11. जनमाध्यम और पत्रकारिता – प्रवीण दीक्षित, सहयोगी साहित्य संस्थान ।
12. हिन्दी पत्रकारिता, राष्ट्रीय नव उद्बोधन – डॉ. श्री पाल शर्मा, युनि.प्रका. जयपुर
13. पत्रकारिता का इतिहास एवं जनसंचार माध्यम– डॉ. संजीव भनावत, युनि. प्रका. जयपुर
14. पत्रकारिता एवं प्रेस विधि – डॉ. बसंती लाल बाबे, सुविधा सा.हा. भोपाल
15. संपादन कला – डॉ. संजीव भनावत, युनि.प्रका.जयपुर ।
16. हिन्दी पत्रकारिता और जन संचार – डॉ. ठाकुर दत्त शर्मा, आलोक वाणी प्रकाशन ।
17. पत्रकारिता इतिहास और प्रश्न – कृष्ण बिहारी मिश्र, वाणी प्रकाशन ।
18. वृहद हिन्दी पत्र पत्रिका कोश – सूर्यप्रसाद दीक्षित, वाणी प्रकाशन ।
19. हिन्दी पत्रकारिता स्वरूप और संदर्भ – विनोद गोदरे, वाणी प्रकाशन ।
20. पत्रकारिता संदर्भ कोश – डॉ. सुधीन्द्र, डॉ. रामप्रकाश वाणी प्रकाशन ।
21. पत्रकारिता के विविध आयाम वेदप्रताप वैदिक
22. पत्रकारिता के विविध आयाम – वेदप्रताप वैदिक
23. जन माध्यम और पत्रकारिता – डॉ. पी.दीक्षित
24. छत्तीसगढ़ के पंच रत्न – रमेश नायर (शताक्षी प्रकाशन, चौबे कालोनी, रायपुर)
25. छत्तीसगढ़ के नव रत्न – रमेश नायर (शताक्षी प्रकाशन, चौबे कालोनी, रायपुर)
26. छत्तीसगढ़ के युग पुरुष : माधव राव सप्रे रमेश नायर (शताक्षी प्रकाशन, चौबे कालोनी, रायपुर)
27. छत्तीसगढ़ के युगपुरुष : पं. सुंदरलाल शर्मा – रमेश नायर (शताक्षी प्रकाशन, चौबे कालोनी, रायपुर)

AA/16  
23/06/18

डॉ. अनुसुईया अग्रवाल डी.लिट्.,  
अध्यक्ष  
हिन्दी अध्ययन मंडल  
पं. रविशंकर शुक्ल विश्वविद्यालय  
रायपुर (छत्तीसगढ़) 492 001

# एम. ए. ( छत्तीसगढ़ी )

## Semester wise distribution of Courses and Credits

### 1. M. A. I Semester Chhattisgarhi

| Course Code  | Title of Paper                              | Marks  |          | Credits   |
|--------------|---------------------------------------------|--------|----------|-----------|
|              |                                             | Theory | Internal |           |
| 01.          | छत्तीसगढ़ी के भौगोलिक अउ ऐतिहासिक पृष्ठभूमि | 80     | 20       | 05        |
| 02.          | छत्तीसगढ़ी के ध्वनि-संरचना                  | 80     | 20       | 05        |
| 03.          | छत्तीसगढ़ी के व्याकरण                       | 80     | 20       | 05        |
| 04.          | छत्तीसगढ़ी साहित्य के इतिहास                | 80     | 20       | 05        |
| 05.          | संगोष्ठी / आंतरिक मूल्यांकन                 |        |          | 02        |
| <b>Total</b> |                                             |        |          | <b>22</b> |

### 2. M. A. II Semester Chhattisgarhi

| Course Code  | Title of Paper                        | Marks  |          | Credits   |
|--------------|---------------------------------------|--------|----------|-----------|
|              |                                       | Theory | Internal |           |
| 01.          | छत्तीसगढ़ी के लोक-साहित्य अउ संस्कृति | 80     | 20       | 05        |
| 02.          | छत्तीसगढ़ी के सीमावर्ती भाषा अउ बोली  | 80     | 20       | 05        |
| 03.          | छत्तीसगढ़ी-काव्य                      | 80     | 20       | 05        |
| 04.          | कार्यालयीन छत्तीसगढ़ी                 | 80     | 20       | 05        |
| 05.          | संगोष्ठी / आंतरिक मूल्यांकन           |        |          | 02        |
| <b>Total</b> |                                       |        |          | <b>22</b> |

### 3. M. A. III Semester Chhattisgarhi

| Course Code  | Title of Paper              | Marks  |          | Credits   |
|--------------|-----------------------------|--------|----------|-----------|
|              |                             | Theory | Internal |           |
| 01.          | छत्तीसगढ़ी के शब्द-संरचना   | 80     | 20       | 05        |
| 02.          | छत्तीसगढ़ी के भाषा-भूगोल    | 80     | 20       | 05        |
| 03.          | प्रायोजन मूलक छत्तीसगढ़ी    | 80     | 20       | 05        |
| 04.          | राजभाषा छत्तीसगढ़ी          | 80     | 20       | 05        |
| 05.          | संगोष्ठी / आंतरिक मूल्यांकन |        |          | 02        |
| <b>Total</b> |                             |        |          | <b>22</b> |

### 4. M. A. IV Semester Chhattisgarhi

| Course Code  | Title of Paper                          | Marks  |          | Credits   |
|--------------|-----------------------------------------|--------|----------|-----------|
|              |                                         | Theory | Internal |           |
| 01.          | छत्तीसगढ़ी के वाक्य-संरचना              | 80     | 20       | 05        |
| 02.          | छत्तीसगढ़ी अउ अनुवाद                    | 80     | 20       | 05        |
| 03.          | छत्तीसगढ़ी के तीज तिहार अउ परंपरा       | 80     | 20       | 05        |
| 04.          | प्रायोगिक प्रशिक्षण अउ आंतरिक-मूल्यांकन | 80     | 20       | 05        |
| 05.          | संगोष्ठी / आंतरिक मूल्यांकन             |        |          | 02        |
| <b>Total</b> |                                         |        |          | <b>22</b> |



1. एम. ए. छत्तीसगढ़ी पाठ्यक्रम म कुल 16 प्रश्न पत्र हावय। हरेक सेमेस्टर म चार प्रश्न पत्र रखे हे हावय।
2. हरेक सेमेस्टर म 22 क्रेडिट अनिवार्य रूप ले रखे गे हावय।
3. हरेक प्रश्न पत्र म 80 अंक रखे गे हावय।
4. हरेक प्रश्न पत्र म 20 अंक के आंतरिक मूल्यांकन या संगोष्ठी पाठ्यक्रम म शामिल करे गे हावय।

*Shalini*  
24.09.18

एम. ए. (छत्तीसगढ़ी) : पहला सेमेस्टर

पहला प्रश्न-पत्र

छत्तीसगढ़ी के भौगोलिक अउ ऐतिहासिक पृष्ठभूमि

1. छत्तीसगढ़ी के भौगोलिक संरचना, नामकरण, छत्तीसगढ़ी के उत्पत्ति अउ ओखर बोली
2. छत्तीसगढ़ी के विकास, म अन्य भाषा/बोली के प्रभाव
3. छत्तीसगढ़ म उपलब्ध भाषा-परिवार
4. छत्तीसगढ़ी के अन्य भाषा मन से संबंध
5. छत्तीसगढ़ी म अन्य भाषा के आगत-शब्द

निर्धारित पुस्तक सूची :

1. व्यास नारायण दुबे : छत्तीसगढ़ी जनभाषा
2. कांति कुमार : छत्तीसगढ़ी बोली व्याकरण और कोश
3. भालचंद्र राव तैलंग : छत्तीसगढ़ी, हलबी और भतरी बोलियों का भाषा वैज्ञानिक अध्ययन
4. नरेन्द्र देव वर्मा : छत्तीसगढ़ी का उद्विकास
5. बलदेव प्रसाद मिश्र : छत्तीसगढ़ परिचय
6. शंकर शेष : छत्तीसगढ़ी का भाषाशास्त्री अध्ययन
7. बिहारी लाल साहू : छत्तीसगढ़ी लोक-साहित्य और भाषा
8. प्यारे लाल गुप्त : प्राचीन छत्तीसगढ़

  
24-09-18

दूसरा प्रश्न पत्र

छत्तीसगढ़ी के ध्वनि-संरचना

1. छत्तीसगढ़ी ध्वनियाँ-स्वर, व्यंजन, संध्यक्षर, स्वर-संयोग, संयुक्त व्यंजन
2. छत्तीसगढ़ी स्वरों के वर्गीकरण
3. छत्तीसगढ़ी व्यंजनों के वर्गीकरण
4. छत्तीसगढ़ी वर्णमाला, अक्षर के परिभाषा अउ प्रकार
5. छत्तीसगढ़ी के ध्वनिगुण-मात्रा, बलाधात, अनुतान

निर्धारित पुस्तक सूची :

1. गोलोक बिहारी धल : ध्वनि-विज्ञान
2. भालचंद्र राव तैलंग : छत्तीसगढ़ी का हलबी, भतरी का भाषा वैज्ञानिक अध्ययन
3. शंकर शेष : छत्तीसगढ़ी का भाषाशास्त्री अध्ययन
4. हीरालाल काव्योपाध्याय : ए ग्रामर आफ छत्तीसगढ़ी डायलेक्ट
5. चंद्रकुमार चंद्राकर : छत्तीसगढ़ी शब्द-कोश
6. पालेश्वर शर्मा : छत्तीसगढ़ी शब्द-कोश
7. रमेशचंद्र महरोत्रा एवं अन्य : छत्तीसगढ़ी शब्द-कोश
8. सत्यभामा आडिल : छत्तीसगढ़ी का व्यवहारिक शब्द-कोश

*Shardha*  
24-09-18

## तीसरा प्रश्न-पत्र

### छत्तीसगढ़ी के व्याकरण

1. छत्तीसगढ़ी के शब्द-भेद – संज्ञा, सर्वनाम, विशेषण, क्रिया, क्रियाविशेषण, अव्यय
2. व्याकरणिक के कोटियाँ– लिंग, वचन, पुरुष, कारक काल, वाच्य अउ वृत्ति
3. कारक – कर्ता, कर्म, करण, आदि
4. वाक्य-संरचना – निर्माण अउ सिद्धान्त
5. वाक्य-रचना की अशुद्धियाँ – वर्तनी संबंधी, शब्द-संबंधी, व्याकरण-संबंधी आदि

### निर्धारित पुस्तक सूची :-

1. चंद्रकुमार चंद्राकर : मानक छत्तीसगढ़ी व्याकरण
2. रमेशचंद्र महरोत्रा एवं अन्य : मानक छत्तीसगढ़ी का सुलभ व्याकरण
3. मंगत रवीन्द्र : छत्तीसगढ़ी व्याकरण
4. कांति कुमार : छत्तीसगढ़ी बोली व्याकरण और कोश
5. नरेन्द्र देव वर्मा : छत्तीसगढ़ी का उद्विकास
6. चितरंजन कर एवं अन्य : छत्तीसगढ़ी की व्याकरणिक-कोटियाँ
7. हीरालाल काव्योपाध्याय : ए ग्रामर आफ छत्तीसगढ़ी डायलेक्ट
8. शंकर शेष : छत्तीसगढ़ी का भाषाशास्त्री अध्ययन

*Shweta*  
24-09-18

## चौथा प्रश्न पत्र

### छत्तीसगढ़ी साहित्य के इतिहास

1. आदि युग : गाथा युग—प्रेम प्रधान गाथाएँ, धार्मिक अउ पौराणिक गाथाएँ
2. मध्य युग (भक्ति काल) वीरगाथाएँ, धार्मिक अउ सामाजिक गीत
3. आधुनिक युग : पद्य साहित्यकार— सुंदर लाल शर्मा, हरि ठाकुर, दानेश्वर शर्मा, द्वारिका प्रसाद तिवारी, कोदूराम दलित, पवन दीवान, श्यामलाल चतुर्वेदी,
4. आधुनिक युग के गद्य साहित्यकार — मोंगरा (शिवशंकर), चंदा अमारित बरसाइत (लखन लाल गुप्त), कुल के मरजाद (केयूरभूषण)

कहानी — केयूर भूषण(आँसू म फिले अचरा), परदेसी राम वर्मा(छपरा), सत्यभामाआडिल (सीख—सीख के गोठ)

5. नाटक/निबंध — खूबचंद बघेल (करमछड़हा), नंदकिशोर तिवारी (परेमा)  
निबंध — पालेश्वर शर्मा(गुड़ी के गोठ)

### निर्धारित पुस्तक सूची :-

1. नरेन्द्र देव वर्मा : छत्तीसगढ़ी का उद्विकास
2. शंकुतला वर्मा : छत्तीसगढ़ी लोक—जीवन और लोक—साहित्य का अध्ययन
3. दयाशंकर शुक्ल : छत्तीसगढ़ी लोक—साहित्य का अध्ययन
4. प्यारेलाल गुप्त : प्राचीन छत्तीसगढ़
5. नंदकिशोर तिवारी : छत्तीसगढ़ी साहित्य का ऐतिहासिक अध्ययन
6. बिहारी लाल साहू : छत्तीसगढ़ी साहित्य और भाषा
7. अनसुइया अग्रवाल : छत्तीसगढ़ी लोकोक्तियाँ और जन—जीवन
8. व्यास नारायण दुबे : छत्तीसगढ़ी जनभाषा
9. महावीर अग्रवाल (संपादक) : हमर छत्तीसगढ़
10. शत्रुहन लाल पाण्डेय : छत्तीसगढ़ी का गद्य—साहित्य

*Shanku*  
24.09-2018

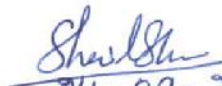
एम. ए. (छत्तीसगढ़ी) : दूसरा सेमेस्टर  
पांचवा प्रश्न-पत्र

छत्तीसगढ़ी के लोक साहित्य अउ संस्कृति

1. छत्तीसगढ़ी लोककला : उद्भव अउ विकास; लोककला अउ कलाकार  
(रामचंद्र देशमुख, महासिंह चंद्राकर, दुलार सिंह)
2. छत्तीसगढ़ के जनजातिय संस्कृति (सरहुल, करमा, मुड़िया नृत्य, माड़िया नृत्य,  
गोंडी, हल्बी, दोरला के संदर्भ म )
3. छत्तीसगढ़ के लोकनाट्य – गम्मत, रहस, नाचा के परिचय
4. लोककला (लोकगाथा) – पंडवानी, भरथरी(झाड़ूराम देवांगन, देवदास बंजारे,  
तीजनबाई, सूरजबाई खांडे आदि)
5. राउतनाचा, सुआ नृत्य, चंदैनी, ददरिया, पंथीनृत्य, करमा, लोकनृत्य के संक्षिप्त  
परिचय

निर्धारित पुस्तक सूची :-

1. बिहारी लाल साहू : छत्तीसगढ़ी लोक साहित्य एवं भाषा
2. नंदकिशोर तिवारी : छत्तीसगढ़ी साहित्य का ऐतिहासिक अध्ययन
3. शंकुतला वर्मा : छत्तीसगढ़ी लोक-जीवन और लोक-साहित्य का अध्ययन
4. दयाशंकर शुक्ल : छत्तीसगढ़ी लोक-साहित्य का अध्ययन
5. नरेन्द्र देव वर्मा : छत्तीसगढ़ी का उद्विकास
6. बलदेव प्रसाद मिश्र : छत्तीसगढ़ परिचय
7. प्यारे लाल गुप्त : प्राचीन छत्तीसगढ़
8. महावीर अग्रवाल (संपादक) : हमर छत्तीसगढ़

  
24-09-2018

छठवाँ प्रश्न-पत्र

छत्तीसगढ़ी के सीमावर्ती भाषा अउ बोली

1. छत्तीसगढ़ी अउ पूर्वी हिन्दी के बोली
2. छत्तीसगढ़ी के सीमावर्ती भाषा अउ बोली
3. छत्तीसगढ़ी अउ उड़िया भाषा
4. छत्तीसगढ़ी अउ मराठी भाषा
5. पूर्वी हिंदी के परिचय अउ बिशेषता

निर्धारित पुस्तक सूची :

1. नरेन्द्र देव वर्मा : छत्तीसगढ़ी का उद्विकास
2. व्यास नारायण दुबे : छत्तीसगढ़ी जन भाषा
3. प्यारे लाल गुप्त : प्राचीन छत्तीसगढ़
4. बिहारी लाल साहू : छत्तीसगढ़ी लोक साहित्य अउ भाषा
5. बलदेव प्रसाद मिश्र : छत्तीसगढ़ परिचय
6. भालचंद्र राव तैलंग : छत्तीसगढ़ी, हलबी, भतरी का भाषावैज्ञानिक अध्ययन
7. कांति कुमार : छत्तीसगढ़ी बोली, व्याकरण एवं कोश

*Shweta*  
24-09-2018

सातवाँ प्रश्नपत्र

छत्तीसगढ़ी काव्य

1. आदिकालीन काव्य – राम और कृष्ण काव्य, वीर गाथा – अहिरन रानी, रेवा रानी फुलबासन
2. मध्यकालीन काव्य – सुंदर लाल शर्मा – दानलीला  
मुकुटधर पांडे – मेघदूत
3. आधुनिक काव्य – प्यारेलाल गुप्त, हरि ठाकुर, नारायण लाल परमार  
नरेन्द्र देव वर्मा
4. नवगीतकार एवं उनकी रचना – जीवन यदु, लक्ष्मण मस्तुरिया, पवन  
दीवान, लाला जगदलपुरी
5. द्रुत पाठ के कवि – निरूपमा शर्मा, दानेश्वर शर्मा, केयूर भूषण, रामेश्वर  
वैष्णव

निर्धारित पुस्तक सूची :

1. सुंदर लाल शर्मा : दानलीला
2. नरेन्द्र देव वर्मा : छत्तीसगढ़ी का उद्विकास
3. व्यास नारायण दुबे : छत्तीसगढ़ी जनभाषा
4. बलदेव प्रसाद मिश्र : छत्तीसगढ़ परिचय
5. महावीर अग्रवाल (संपादक) : हमर छत्तीसगढ़

*SheelShr*  
24-09-2018



आठवाँ प्रश्न—पत्र

कार्यालयीन छत्तीसगढ़ी

1. छत्तीसगढ़ी भाषा – मौखिक अउ लिखित औपचारिक अउ अनौपचारिक छत्तीसगढ़ी; मानक छत्तीसगढ़ी
2. कार्यालयीन छत्तीसगढ़ी के प्रयोग—क्षेत्र, टिप्पन, प्रारूपन अउ संक्षेपन
3. छत्तीसगढ़ी के प्रशासनिक शब्दावली
4. विज्ञान अउ तकनीकी शब्दावली
5. छत्तीसगढ़ी भाषा में कोड मिश्रण, संस्कृत अउ छत्तीसगढ़ी, अरबी—फारसी अउ छत्तीसगढ़ी, अँग्रेजी अउ छत्तीसगढ़ी, आदि।

निर्धारित पुस्तक सूची :

1. केशरी लाल वर्मा : कार्यालयीन हिंदी
2. नंदकिशोर तिवारी(संपादक) : लोकाक्षर (छत्तीसगढ़ी त्रैमासिक पत्रिका)
3. महावीर अग्रवाल (संपादक) : हमर छत्तीसगढ़
4. हीरालाल काव्योपाध्याय : ए ग्रामर ऑफ छत्तीसगढ़ी डायलेक्ट
5. कैलाश नाथ पाण्डेय : प्रयोजनमूलक हिन्दी की नयी भूमिका
6. सुरेश माहेश्वरी : कार्यालयी हिन्दी एवं कार्यालयी अनुवाद तकनीक
7. कृष्ण कुमार गोस्वामी : प्रयोजनमूलक भाषा और कार्यालयी हिन्दी

*Shankar*  
24-09-2018

एम. ए. (छत्तीसगढ़ी) : तीसरा सेमेस्टर  
नउवाँ प्रश्न पत्र

छत्तीसगढ़ी के शब्द-संरचना

1. शब्द-संरचना – तत्सम, तद्भव, देशज अउ विदेशी शब्द
2. अर्थ-संरचना – अनेकार्थी, विलोमर्थी पर्यायवाची, अमिधा, लक्ष्मण व्यंजना, वाक्यांश के लिए एक शब्द अउ समूहवाची शब्द
3. रूप-संरचना : प्रत्यय अउ उपसर्ग
4. मुहावरे, लोकोक्तियाँ अउ पहेलियाँ; अर्थ अउ वाक्य-प्रयोग
5. विशेषण से संज्ञा बनाना, क्रिया से संज्ञा अउ विशेषण बनाना, संज्ञा से क्रिया विशेषण बनाना

निर्धारित पुस्तक सूची :-

1. बिहारी लाल साहू : छत्तीसगढ़ी पहेलिकाएँ और संस्कृति
2. मंगत रवीन्द्र : छत्तीसगढ़ी व्याकरण
3. वासुदेव नंदन प्रसाद : आधुनिक हिंदी व्याकरण और रचना
4. गणेश खरे : हिंदी स्वरूप और प्रयोग
5. रमेशचंद्र महरोत्रा एवं अन्य : छत्तीसगढ़ी लोकोक्तियाँ कोश
6. ऋषभ नारायण वर्मा : छत्तीसगढ़ी भाषा का अंग्रेजी अनुवाद
7. हरिठाकुर एवं अन्य : छत्तीसगढ़ी भाषा, मुहावरे, लोकोक्तियाँ एवं लोक गीत
8. व्यास नारायण दुबे : छत्तीसगढ़ी जनभाषा
9. राजेन्द्र सोनी एवं अन्य : आओ सीखें छत्तीसगढ़ी
10. रमेशचंद्र महरोत्रा एवं अन्य : छत्तीसगढ़ी मुहावरा कोश

*ShailShu*  
24-09-2018

आठवाँ प्रश्न-पत्र

कार्यालयीन छत्तीसगढ़ी

1. छत्तीसगढ़ी भाषा – मौखिक अउ लिखित औपचारिक अउ अनौपचारिक छत्तीसगढ़ी; मानक छत्तीसगढ़ी
2. कार्यालयीन छत्तीसगढ़ी के प्रयोग-क्षेत्र, टिप्पन, प्रारूपन अउ संक्षेपन
3. छत्तीसगढ़ी के प्रशासनिक शब्दावली
4. विज्ञान अउ तकनीकी शब्दावली
5. छत्तीसगढ़ी भाषा में कोड मिश्रण, संस्कृत अउ छत्तीसगढ़ी, अरबी-फारसी अउ छत्तीसगढ़ी, अँग्रेजी अउ छत्तीसगढ़ी, आदि।

निर्धारित पुस्तक सूची :

1. केशरी लाल वर्मा : कार्यालयीन हिंदी
2. नंदकिशोर तिवारी(संपादक) : लोकाक्षर (छत्तीसगढ़ी त्रैमासिक पत्रिका)
3. महावीर अग्रवाल (संपादक) : हमर छत्तीसगढ़
4. हीरालाल काव्योपाध्याय : ए ग्रामर ऑफ छत्तीसगढ़ी डायलेक्ट
5. कैलाश नाथ पाण्डेय : प्रयोजनमूलक हिन्दी की नयी भूमिका
6. सुरेश माहेश्वरी : कार्यालयी हिन्दी एवं कार्यालयी अनुवाद तकनीक
7. कृष्ण कुमार गोस्वामी : प्रयोजनमूलक भाषा और कार्यालयी हिन्दी

*Shankar*  
24.09-2018

एम. ए. (छत्तीसगढ़ी) : तीसरा सेमेस्टर  
नउवाँ प्रश्न पत्र

छत्तीसगढ़ी के शब्द-संरचना

1. शब्द-संरचना – तत्सम, तद्भव, देशज अउ विदेशी शब्द
2. अर्थ-संरचना – अनेकार्थी, विलोमर्थी पर्यायवाची, अमिधा, लक्ष्मण व्यंजना, वाक्यांश के लिए एक शब्द अउ समूहवाची शब्द
3. रूप-संरचना : प्रत्यय अउ उपसर्ग
4. मुहावरे, लोकोक्तियाँ अउ पहेलियाँ; अर्थ अउ वाक्य-प्रयोग
5. विशेषण से संज्ञा बनाना, क्रिया से संज्ञा अउ विशेषण बनाना, संज्ञा से क्रिया विशेषण बनाना

निर्धारित पुस्तक सूची :-

1. बिहारी लाल साहू : छत्तीसगढ़ी पहेलिकाएँ और संस्कृति
2. मंगत रवीन्द्र : छत्तीसगढ़ी व्याकरण
3. वासुदेव नंदन प्रसाद : आधुनिक हिंदी व्याकरण और रचना
4. गणेश खरे : हिंदी स्वरूप और प्रयोग
5. रमेशचंद्र महरोत्रा एवं अन्य : छत्तीसगढ़ी लोकोक्तियाँ कोश
6. ऋषभ नारायण वर्मा : छत्तीसगढ़ी भाषा का अंग्रेजी अनुवाद
7. हरिठाकुर एवं अन्य : छत्तीसगढ़ी भाषा, मुहावरे, लोकोक्तियाँ एवं लोक गीत
8. व्यास नारायण दुबे : छत्तीसगढ़ी जनभाषा
9. राजेन्द्र सोनी एवं अन्य : आओ सीखें छत्तीसगढ़ी
10. रमेशचंद्र महरोत्रा एवं अन्य : छत्तीसगढ़ी मुहावरा कोश

  
24-09-2018

दसवाँ प्रश्न-पत्र

छत्तीसगढ़ी के भाषा-भूगोल

1. छत्तीसगढ़ी म विभिन्न भाषामन के प्रयोग, अउ क्षेत्र, भाषा प्रयोग म शैली-भेद अउ सांस्कृतिक-भेद ।
2. छत्तीसगढ़ी भाषा का सामाजिक सन्दर्भ – द्विभाषिकता, पिजिन, क्रियोल, डिग्लोसिया (भाषा दवैत), कोड़ मिश्रण अउ कोड़ परिवर्तन ।
3. छत्तीसगढ़ी म संबोधन अउ मैत्रिय संबंध
4. छत्तीसगढ़ी रिश्ते-नाते अउ रंगमन के शब्दावली
5. छत्तीसगढ़ी भाषा के भेदक रूप के व्यवहार अउ मानचित्र

निर्धारित पुस्तक सूची :-

1. कैलाश चंद्र भाटिया : भाषा-भूगोल
2. मुरारी लाल उप्रेती : भाषा-सर्वेक्षण
3. उदय नारायण तिवारी : भाषा-शास्त्र की रूपरेखा
4. व्यास नारायण दुबे : छत्तीसगढ़ी जनभाषा
5. रवीन्द्रनाथ श्रीवास्तव : हिंदी का सामाजिक सन्दर्भ
6. महावीर शरण जैन : भाषा एवं भाषाविज्ञान
7. भोलानाथ तिवारी : भाषाविज्ञान
8. हीरालाल शुक्ल : शब्द-भूगोल
9. मधु धवन : भाषान्तरण कला : एक परिचय

*Shelsh*  
24-09-2018

ग्यारवाँ प्रश्न पत्र

प्रायोजन मूलक छत्तीसगढी

1. भाषा के विविध रूप – क्षेत्रीय छत्तीसगढी, साहित्यिक छत्तीसगढी, सामान्य छत्तीसगढी, मानक छत्तीसगढी, राजभाषा छत्तीसगढी
2. जनसंचार के भाषा – समाचार-पत्र अउ पत्रिका के भाषा, दृश्य-श्रव्य माध्यम के छत्तीसगढी
3. छत्तीसगढी म विज्ञापन, समाचार, छत्तीसगढी के समाचार-पत्र एवं पत्र-पत्रिका
4. विभिन्न पारिभाषिक शब्दावली, अनुवाद एवं निर्माण अउ विभिन्न विभागों की विशिष्ट पारिभाषिक शब्दावली-रेल, बैंक, डाकविभाग, पुलिस, न्यायालय, मंत्रालय आदि।
5. पाठ्यक्रम म छत्तीसगढी : स्वरूप निर्धारण

निर्धारित पुस्तक सूची :

1. भोलानाथ तिवारी : भाषा विज्ञान
2. सत्यभामा आडिल : छत्तीसगढी का व्यावहारिक शब्दकोश
3. व्यास नारायण दुबे : छत्तीसगढी जनभाषा
4. बिहारी लाल साहू : छत्तीसगढी लोक भाषा और साहित्य
5. मंगल रवीन्द्र : छत्तीसगढी व्याकरण
6. चंदकुमार चंद्राकर : मानक छत्तीसगढी व्याकरण
7. रमेश चंद्र महरोत्रा एवं अन्य : मानक छत्तीसगढी सुलभ व्याकरण
8. चितरंजन कर एवं अन्य : छत्तीसगढी की व्याकरणिक कोटियाँ

*Shubh*  
24.09.2018

बारवाँ प्रश्न—पत्र

राजभाषा छत्तीसगढ़ी

1. राजभाषा छत्तीसगढ़ी की अवधारणा संविधान में राजभाषा अधिनियम
2. राजभाषा का मानकीकरण ऐतिहासिक अउ, आधुनिकीकरण
3. वर्तनी—संबंधी मानकीकरण, शब्द—संबंधी मानकीकरण, अर्थ—संबंधी मानकीकरण, वाक्य—संबंधी मानकीकरण
4. कार्यालयीन/प्रशासनिक छत्तीसगढ़ी के प्रयुक्तियाँ वाणिज्य, ब्यापार, रेल, बैंक, विधि, विज्ञापन, यातायात, आदि।
5. सामाजिक स्तर—भेद के आधार पर छत्तीसगढ़ी—शिक्षा, प्रशासनिक, धर्म, समाज, आदि।

निर्धारित पुस्तक सूची :

1. सुधीर शर्मा : राजभाषा छत्तीसगढ़ी
2. व्यास नारायण दुबे : छत्तीसगढ़ी जनभाषा
3. विभाष कुमार झा एवं अन्य : छत्तीसगढ़ समग्र
4. हीरालाल शुक्ल : शब्द—भूगोल
5. हरिठाकुर एवं अन्य : छत्तीसगढ़ी भाषा, मुहावरे, लोकोक्तियाँ एवं लोक गीत
6. कैलाश नाथ पाण्डेय : प्रयोजनमूलक हिन्दी की नयी भूमिका
7. सुरेश माहेश्वरी : कार्यालयी हिन्दी एवं कार्यालयी अनुवाद तकनीक
8. कृष्ण कुमार गोस्वामी : प्रयोजनमूलक भाषा और कार्यालयी हिन्दी
9. ओम्प्रकाश सिंहल : प्रयोजनमूलक व्यावहारिक हिन्दी

एम. ए. (छत्तीसगढ़ी) : चौथा सेमेस्टर  
तेरहवाँ प्रश्न-पत्र

छत्तीसगढ़ी के वाक्य संरचना

1. वाक्य-संरचना के आधार पर – सरल, मिश्र और संयुक्त वाक्य
2. छत्तीसगढ़ी के वाक्य अउ उपवाक्य – संज्ञा उपवाक्य, विशेषण उपवाक्य,  
क्रिया उपवाक्य, क्रिया विशेषण उपवाक्य
3. पदबंध-संरचना अउ पदक्रम – संज्ञा-पदबंध, सर्वनाम-पदबंध,  
विशेषण-पदबंध, क्रिया-पदबंध, क्रिया विशेषण-पदबंध
4. छत्तीसगढ़ी सब्द म असुद्धि अउ निराकरण
5. छत्तीसगढ़ी म विराम-चिहनों के असुद्धि

निर्धारित पुस्तक सूची :-

1. भोलानाथ तिवारी : वाक्य विज्ञान
2. कांति कुमार : छत्तीसगढ़ी व्याकरण बोली और कोश
3. हरिठाकुर एवं अन्य : छत्तीसगढ़ी भाषा, मुहावरे, लोकोक्तियाँ एवं लोक गीत
4. हीरालाल शुक्ल : शब्द-भूगोल
5. सूरज भान सिंह : हिंदी का वाक्यात्मक व्याकरण
6. कामताप्रसाद गुरु : हिंदी व्याकरण

*Sheelika*  
24-09-2018

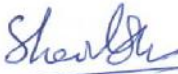


चौदवाँ प्रश्न पत्र  
छत्तीसगढ़ी अउ अनुवाद

1. अनुवाद के परिभाषा, उद्देश्य एवं महत्व और प्रकार
2. अनुवाद के सीमा – सफल अनुवादक के गुण, अनुवाद के सिद्धान्त, अनुवाद की भाषा
3. छत्तीसगढ़ी ले हिंदी अनुवाद (पद्यांश/गद्यांश, पाठ)
4. हिंदी ले छत्तीसगढ़ी अनुवाद (पद्यांश/गद्यांश, पाठ)
5. छत्तीसगढ़ी अनुवाद (स्वेच्छा से) – हलबी, भतरी, गोंडी, सरगुजिया, लरिया

निर्धारित पुस्तक सूची :-

1. सुरेश कुमार : अनुवाद : सिद्धान्त की रूपरेखा
2. भोलानाथ तिवारी : अनुवाद-विज्ञान
3. रवीन्द्रनाथ श्रीवास्तव एवं गोस्वामी : अनुवाद सिद्धान्त और समस्याएँ
4. कैलाशचंद्र भाटिया : अनुवाद कला सिद्धान्त और प्रयोग
5. भोलानाथ तिवारी एवं किरण बाला : भारतीय भाषाओं से अनुवाद की समस्याएँ

  
24-09-2018


पंद्रवाँ प्रश्न-पत्र

छत्तीसगढ़ के तीज-तिहार अउ परंपरा

1. छत्तीसगढ़ के लोक-जीवन, धार्मिक अउ ओखर सामाजिक महत्व
2. छत्तीसगढ़ी लोकगीत – नारी गीत, पुरुष गीत, जातीय गीत, ऋतु गीत, बालक गीत
3. छत्तीसगढ़ी संस्कार-गीत अउ गहना
4. छत्तीसगढ़ के तीज-तिहार – अक्ती, हरेली, राखी, खमरछठ, पोला तीजा, नवरात्रि, दशहरा, देवारी, अउ होरी आदि।
5. छत्तीसगढ़ के लोक चित्रकला – चौक, सदनाही, आटे कन्हैया, हरितालिका, गोबर चित्रकला, घर सिंगार, विवाह चित्र, अउ गोदना आदि।

निर्धारित पुस्तक सूची :-

1. मन्नु लाल यदु : छत्तीसगढ़ की लोकोक्तियों का भाषावैज्ञानिक अध्ययन
2. हीरालाल शुक्ल : शब्द-भूगोल
7. कांति कुमार : छत्तीसगढ़ी; व्याकरण बोली और कोश
8. हरिठाकुर एवं अन्य : छत्तीसगढ़ी भाषा, मुहावरे, लोकोक्तियाँ एवं लोक-गीत
9. चितरंजन कर एवं अन्य : छत्तीसगढ़ी की व्याकरणिक-कोटियाँ
10. हीरालाल काव्योपाध्याय : ए ग्रामर आफ छत्तीसगढ़ी डायलेक्ट

  
24.09.18


सोलवाँ प्रश्न-पत्र

प्रायोगिक प्रक्षिशन अउ आंतरिक मूल्यांकन

1. जनजाति भाषा अउ ओखर संस्कृति
2. छत्तीसगढ़ी शब्दावली के संकलन
3. कोनो पदय के छत्तीसगढ़ी अनुवाद
4. कोनो गदय के छत्तीसगढ़ी अनुवाद
5. छत्तीसगढ़ के लोक साहित्य अउ प्रचलित शब्द के संकलन

निर्धारित पुस्तक सूची :-

1. कांति कुमार : छत्तीसगढ़ी; व्याकरण बोली और कोश
2. हरिठाकुर एवं अन्य : छत्तीसगढ़ी भाषा, मुहावरे, लोकोक्तियाँ एवं लोक गीत
3. चितरंजन कर एवं अन्य : छत्तीसगढ़ी की व्याकरणिक-कोटियाँ
4. हीरालाल काव्योपाध्याय : ए ग्रामर आफ छत्तीसगढ़ी डायलेक्ट
5. गोलोक बिहारी धल : ध्वनि-विज्ञान
6. शंकर शेष : छत्तीसगढ़ी का भाषाशास्त्री अध्ययन
7. व्यास नारायण दुबे : छत्तीसगढ़ी जनभाषा

  
24-09-2018



# Diploma in European and Asian Languages – French 2017-18

## Paper - I

Texts and Grammar

100 Marks

- \* The French Speech Sounds.
- \* Word Building and Vocabulary.
- \* Sentence Construction.
- \* Grammar and Text.

### **Prescribed Book :**

1. Hugo's French in Three Months.

## Paper - II

Translation and Comprehension

100

Marks

- \* Translation of a simple passage in the French language into English and vice-versa.
- \* Unseen Passage : Understanding a passage in the French Language and answering.
- \* Simple questions thereon.
- \* Simple questions of general nature.
- \* Name of day and months.
- \* Writing in words the cardinal numbers upto 1000.

### **Prescribed Book :**

1. Hugo's French in Three Months.

# Diploma in European and Asian Languages-English 2018-19

## PAPER-I

Sounds and Grammar

Maximum Marks 100

- English Vowels and Diphthongs 10 marks
- English Consonants 10 marks
- Phonetic Transcription of English Words 10 marks
- Parts of Speech, their Grammatical Formation 10 marks
- Sentence Constructions, Sentence Patterns 10 marks
- Word Building and Vocabulary-Antonyms, Synonyms, Homonyms, Proverbs, Idioms and One Word Substitute 10 marks

- Grammar-

30 marks




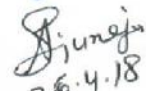
Nouns-Countable and Uncountable (use of 'a', 'an', 'some' and 'any'). Articles, Pronouns, Verbs-Main and Auxiliary, Prepositions. Tenses- their, forms and use, agreement of the verb with the subject. Voice, Non-Finites- the Gerund, Infinitive and Participles, Kinds of Sentence, Statements, Commands, Negative, Questions, Simple Complex and Compound sentences, Narration.

- Correction of Common Errors.

10 marks

### Books Recommended :

- *A Remedial English Grammar*- F.T. Wood
- *An Intermediate Grammar and Composition*- M.L. Tikkoo and Subramanyam
- *Living English Structure*- S. L.N.
- *English Pronouncing Dictionary*- D. Jones
- *The Source of Authenticity in English Grammar* – Dr Depika Dhand. Himalayan Publishing House

1. Dr. Kiran Tiwari  26/4/18
2. Dr. Madhu Kher  Madhu Kher
3. Dr. Protibha Kerkhaya Samra  26.4.18
4. Dr. Anita Juneja  Anita Juneja 26.4.18

**Diploma in European and Asian Languages-English  
2018-19**

**PAPER-II**

|                                                                           |           |
|---------------------------------------------------------------------------|-----------|
| Translation and Comprehension                                             | 100 marks |
| Translation of a Passage- English to Hindi and Vice- Versa                | 20 marks  |
| Comprehension – Unseen Passage in English and Answering simple questions. |           |
| (a)Prose-Piece Comprehension                                              | 4 marks   |
| Vocabulary                                                                | 4 marks   |
| (b)Short Poem Comprehension                                               | 4 marks   |
| Vocabulary                                                                | 3 marks   |
| Precis Writing                                                            | 5 marks   |
| Letter Writing – Formal                                                   | 5 marks   |
| Informal                                                                  | 5 marks   |
| Resume/ Biodata/CV                                                        | 5 marks   |
| Essay Writing –Advertisement                                              |           |
| E-mails                                                                   | 5 marks   |
| Notice Writing                                                            | 5 marks   |
| Picture Writing                                                           | 10 marks  |
| Dialogue Writing                                                          | 10 marks  |

**Books Recommended:**

*A Remedial Course in English for Colleges (Book-II) – B.K. Das and A. David (COEFL, O.U.P.)*

*General English – Ganguli and Wood.*

*Simplifying Spelling Structures – Deepika Dhand. Himalayan Publishing House.*

*Email Etiquette: Netiquette for the Information Age by David Tufley*

*Write Effective e mails at Work by Ramakrishna Reddy.*

*How to Translate into English by RPSinha, Bharti Bhavan Publication.*

1. Dr Kiran Tiwari <sup>File</sup> <sub>26/4/18</sub>
2. Dr Madhu Kher - Madhu Kher
3. Dr Prabhakar Mukhiya Sahukar <sub>26/4/18</sub>
4. Dr Anita Juneja <sub>26/4/18</sub>

# Certificate Course in Translation – 2017-18

## Paper - I

Theory of Translation

100

Marks

(अनुवाद के सिद्धांत)

Translation Definition, Aim, Importance and

अनुवाद की परिभाषा, अनुवाद का

Scope, Demerits, Limitation, Good Translation,

उद्देश्य, महत्व और व्यवहार-क्षेत्र, ए  
अनुवाद के दोष, अनुवाद की

Theories of Translation

सीमाएँ, सफल अनुवाद,

अनुवाद-सिद्धांत

Processor Translation- Nada's View, Nemark's View

वुफ़न इफ़; & उबमक दक फ़रु]

Bathgate's View, Conclusion

U; wkdZdk fpru] cFlxV dk

fpru] fu"d"lZ

Types of Translation, Type of Extra Linguistic

वुफ़न दसिज्क] & Hk'kcg;

Translation, Types of Intra-Linguistic Translation,

वुफ़न & izkj] Hk'kcdfnr ,

Types of Secondary Translation Type of Text

वुफ़न & izkj] xSk वुफ़न&  
izkj iBla dsizkj

Translation Work - Types of Translator, Abilities

वुफ़न दक & वुफ़न दसिज्क]

of Translator, Language of Translator, Methods

वुफ़न dh {lerk, j वुफ़न dh ,

of Translation, Evaluation, Lexical, Syntactical,

Hk'k] वुफ़न eV; kdu dh fof/k k  
dsk'xr] okD; foU; kl xr] vFlZr]

Semantic Contextual, Teaching of Translation in

l nHkr] वुफ़न f' k'k k'l eHf'kd

Monolingual and Bilingual Contexts

l nHZeavुफ़न&' k'k k] nfoHf'kd

l nHZeavुफ़न&' k'k k



## Books Recommended for Study:

- (1) Aspects of Translation - L. Forster (Ed.) A.D. Booth (Sicker and Warberg, London).
- (2) A Linguistic Theory of Translation - J.C. Catford (Oxford University Press, London).
- (3) Towards A Science of Translating - E.A. Nida (Leiden, E.J. Brill).
- (4) Translation and Translation - J.P. Postgate (London : Bell).
- (5) अनुवाद सिद्धांत की रूपरेखा – सुरेश कुमार (वाणी प्रकाशन, दिल्ली).
- (6) अनुवादकला सिद्धांत और प्रयोग – कैलाशचंद्र भाटिया (भारतीय ग्रंथ निकेतन, दिल्ली).
- (7) अनुवाद विज्ञान – भोलानाथ तिवारी.
- (8) अनुवाद : सिद्धांत और समस्याएँ – रवींद्र श्रीवास्तव एवं कृष्ण कुमार गोस्वामी.
- (9) अनुवादकला और समस्याएँ – वैज्ञानिक अनुसंधान और संस्कृति मंत्रालय, भारत
- (10) भारतीय भाषाओं से अनुवाद की समस्याएँ – भोलानाथ तिवारी एवं किरण बाला (शब्दकार, दिल्ली).

# Certificate Course in Translation – 2017-18

## Paper - II

Practice of Translation

100

### Marks

There will be ten questions of equal marks based on the matter on the following topics. Each Topic will have two passages one for Hindi-English Translation and the other for English-Hindi Translation (Students can use dictionaries)

इस प्रश्न-पत्र में निम्नलिखित प्रकरणों पर आधारित समान अंकों वाले दस प्रश्न पूछे जाएँगे। प्रत्येक प्रकरण पर दो गद्यांश होंगे— पहला हिंदी-अँगरेजी अनुवाद के लिए और दूसरा अँगरेजी-हिंदी अनुवाद के लिए। छात्र शब्दकोश इस्तेमाल कर सकते हैं।

|    |                 |   |                 |
|----|-----------------|---|-----------------|
| 1. | News            | - | समाचार          |
| 2. | Official Letter | - | कार्यालयीन पत्र |
| 3. | Literary Essay  | - | साहित्यिक निबंध |
| 4. | Conversation    | - | वार्तालाप       |
| 5. | Advertisement   | - | विज्ञापन        |

### **Books Recommended** निर्धारित पुस्तकें

- (1) How to Translate in to English (Incorporating Spoken English) - R.P. Sinha, Bharat Bhawarn, Patna.

एम.फिल. (भाषाविज्ञान) 2017-18  
M.Phil. (Linguistics) 2017-18

|         |                                                                                         |         |
|---------|-----------------------------------------------------------------------------------------|---------|
| क्र.    | सैद्धांतिक प्रश्न पत्र                                                                  | कुल अंक |
| 1.      | शोध-प्रविधि <b>Research Methodology</b>                                                 | 100     |
| 2.      | व्याकरण : सिद्धांत और व्यवहार <b>Grammar Theoretical &amp; Practical</b>                | 100     |
| 3.      | भाषाशिक्षण-विधियाँ <b>Language Teaching Methods</b>                                     | 100     |
| 4.      | सेमिनार –सैद्धांतिक प्रश्नपत्रों पर आधारित<br><b>Seminar - Based on Theory</b>          | 50      |
| 5.      | लघुशोध-प्रबंध – लघुशोध-प्रबंध पर आधारित सेमिनार<br><b>Seminar Based on Dissertation</b> | 50      |
| लेखन    | <b>Script Writing</b>                                                                   | 75      |
| मौखिकी  | <b>Viva-Voce</b>                                                                        | 25      |
| कुल अंक | <b>Total Marks</b>                                                                      | 200     |
| कुल योग | <b>Grand Total</b>                                                                      | 500     |

प्रश्नपत्र प्रथम

शोध-प्रविधि **Research Methodology**

- |    |                                                                                                                                                                                     |                                                                                                                                                                                                                                                                          |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | शोध का तात्पर्य, लक्ष्य तथा महत्व<br>शोध के प्रकार<br>भाषिक शोध की प्राचीन परंपराएँ<br>भाषिक शोध के प्रमुख उपागम<br>वर्णनात्मक, ऐतिहासिक, तुलनात्मक<br>Comparative.                 | Meaning of Research, Aims and importance.<br>Types of Research.<br>Old Tradition of Linguistic Research.<br>Major Theoretical Approaches in<br>Linguistic Research-Descriptive, Historical,                                                                              |
| 2. | शोध-विषय का चयन तथा नियमन<br>शोध-प्रारूप<br>सामग्री-संकलन के उपागम- एकभाषिक<br>एवं द्विभाषिक<br>सामग्री-संकलन के उपागम- सूचक,<br>शब्द-वाक्य-लिस्ट, कार्ड तथा यांत्रिक<br>प्रश्नावली | Selection of Topic of Research and<br>Formulation of Research Problem.<br>Research-Design.<br>Approaches of Data-Collection-<br>Monolingual and Bilingual.<br>Tools of Data-Collection- Informant, Word-<br>Sentence-List, Cards, and Other<br>Equipments. Questionnaire |
| 3. | सामग्री-संकलन के स्रोत- जनगणना-<br>अभिलेख, पुरातात्विक अभिलेख (जैसे-<br>शिलालेख, ताम्रपत्र, पांडुलिपि, ताड़पत्र<br>लेख, मुहर, आदि)<br>भाषा में अतिरेक                               | Secondary Sources of Data-Collection-<br>Sensus-Records, Archaeological Records.<br><br>Redundancy in Language.                                                                                                                                                          |

*Sheelika*  
24-09-2018

4. सामग्री-संकलन में अन्य भाषा-व्याघात Other Language Interference in Data-Collection.  
सामग्री-चुनाव, पद्धति तथा आकार Selection, Method and Size.  
सामग्री-विश्लेषण एवं लेखन Analysis of Data and Writing.  
प्रलेखन तथा संदर्भ-विधान Documentation and System of Reference.

निर्धारित पुस्तकें Prescribed Books :

1. नवीन शोधविज्ञान : तिलक सिंह (प्रकाशन संस्थान, दिल्ली)
2. अनुसंधान विधियाँ : एच.के. कपिल
3. अनुसंधान के मूलतत्त्व : विश्वनाथ प्रसाद (क.मु. हिंदी तथा भाषाविज्ञान विद्यापीठ, आगरा)
4. अनुसंधान परिचय : पारसनाथ राय (लक्ष्मीनारायण लाल, आगरा)
5. सामाजिक सर्वेक्षण की प्रविधियाँ : जयप्रकाश एवं गोविंद तिवारी (लक्ष्मीनारायण लाल, आगरा)
6. भाषा-भूगोल : कैलाशचंद्र भाटिया (हिंदी समिति, लखनऊ)
7. भाषाविज्ञान का इतिहास : महेश प्रसाद जायसवाल (म.प्र. हिंदी ग्रंथ अकादमी भोपाल)
8. भारतीय भाषाशास्त्रीय चिंतन : विद्या निवास मिश्र (जयपुर)
9. आधुनिक भाषाविज्ञान : मोतीलाल गुप्त एवं भटनागर (जयपुर)
10. Research Methodology : C.R. Kothari (Wiley Eastern Ltd. New Delhi)
11. Methods and Techniques : Leon Fastinger and Daniel Kats (Amerind Pub. Ltd. New Delhi)
12. An Introduction to Historical and Comparative Linguistics : Raima Anttia
13. Field Linguistics : William Samann (Holt, Rinehart and Winston, New York)
14. Morphology : E.A. Nida (Ann Arbor, Michigan University Press, U.S.A.)
- Writing the Research Paper : A Hand Book-Anthony C. Winkel and Jo Ray Macuen (Harcourt Brace Jovanovich, New York)
15. A Course in Modern Linguistics : C.F. Hockett (The Macmillan Co., New York)
16. An Introduction to : J. Jeffery Auer (Harper and Row, New Delhi)
17. Language Two : Hoidi Dulay, Marine Burt, Stephen Kroshan.

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प्रश्नपत्र द्वितीय

व्याकरण : सिद्धांत और व्यवहार

Grammar : Theoretical and Practice

- |    |                                                                                                                                                   |                                                                                                                                                     |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | व्याकरण : अर्थ, प्रकृति, व्याप्ति एवं प्रकार                                                                                                      | Grammar : Meaning, Nature, Scope and Types.                                                                                                         |
| 2. | पारंपरिक व्याकरण : ग्रीक परंपरा, रोमन/लैटिन परंपराएँ, भारतीय परंपरा                                                                               | Traditional Grammar : Greek Tradition, Roman/Latin Tradition, Indian Tradition.                                                                     |
| 3. | सस्यूर की भाषा एवं वाक् की अवधारणा वर्णनात्मक/संरचनात्मक व्याकरण : अमरीकी संरचनावाद, निकटस्थ अवयव-विश्लेषण, अंतःकेन्द्रिक एवं बहिर्केन्द्रिक रचना | Saussure's Concept of Language and Parole. Descriptive Structural Grammar, Immediate Constituent Analysis, Endocentric and Exocentric Construction. |
| 4. | रूपांतरणपरक-प्रजनक व्याकरण की रूपरेखा भाषा-सामर्थ्य एवं भाषा-व्यवहार आंतरिक एवं बाह्य संरचना                                                      | Transformational-Generative Grammar, Competence and Performance. Deep and Surface Structure.                                                        |
| 5. | प्रजनक अर्थविज्ञान की अवधारणा कारक व्याकरण और संप्रेषण व्याकरण का परिचय भाषा-प्रकार्य की अवधारणा                                                  | Generative Semantics : Case-Grammar. Communicative Grammar Concept of Language Function.                                                            |

निर्धारित पुस्तकें Prescribed Books :

- |     |                                            |   |                                                                  |
|-----|--------------------------------------------|---|------------------------------------------------------------------|
| 1.  | सैद्धांतिक भाषाविज्ञान                     | : | जॉन ल्यंस (अनु. सत्यकाम वर्मा)                                   |
| 2.  | भाषाविज्ञान एवं भाषा                       | : | कपिलदेव द्विवेदी (विश्वविद्यालय प्रकाशन, नई दिल्ली)              |
| 3.  | आधुनिक भाषाविज्ञान                         | : | भोलानाथ तिवारी (लिपि प्रकाशन, नई दिल्ली)                         |
| 4.  | आधुनिक भाषाविज्ञान का इतिहास               | : | महेश प्रसाद जयसवाल (म.प्र. हिंदी ग्रंथ अकादमी भोपाल)             |
| 5.  | आधुनिक भाषाविज्ञान                         | : | कृपाशंकर सिंह और चतुर्भुज सहाय (नेशनल पब्लिशिंग हाउस, नई दिल्ली) |
| 6.  | संप्रेषणपरक-व्याकरण : सिद्धांत और प्रारूप  | : | सं. सुरेश कुमार (केंद्रीय हिंदी संस्थान, आगरा)                   |
| 7.  | हिंदी का नवीनतम बीज-व्याकरण                | : | रमेश चंद्र महरोत्रा एवं चित्त रंजन कर (पहचान प्रकाशन)            |
| 8.  | भारतीय भाषाशास्त्रीय चिंतन                 | : | सं. विद्यानिवास मिश्र आदि (राजस्थान हिंदी ग्रंथ अकादमी, जयपुर)   |
| 9.  | A Short History of Linguistics             | : | R.H. Robin (Longmans)                                            |
| 10. | Lexical-Functional Grammar                 | : | George M. Morn (Mouton)                                          |
| 11. | Language and Linguistics                   | : | John Lyons (Cambridge University Press)                          |
| 12. | Halliday : System and Function in Language | : | (Ed.) Gunther Kress (Oxford University Press)                    |
| 13. | A Communicative Grammar of English         | : | G.N. Leech and Jan Svartvik (Long man)                           |

प्रश्नपत्र तृतीय

*Shailika*  
24-09-2018

## भाषाशिक्षण—विधियाँ Language Teaching Methods

- |    |                                                                                          |                                                                                                             |
|----|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 1. | भाषाशिक्षण एवं भाषार्जन<br>भाषाशिक्षण का उद्देश्य और महत्व<br>भाषा—संस्कृति              | Language Teaching and Language Acquisition<br>Aims and Importance of Language-Teaching.<br>Language Skills. |
| 2. | भाषा—प्रशिक्षण<br>शिक्षण विधियाँ<br>त्रुटि विश्लेषण<br>मातृभाषा का आघात                  | Language Testing<br>Teaching Methods<br>Error-Analysis<br>Impact of Mother Tongue                           |
| 3. | व्यतिरेक विश्लेषण<br>साँचा अभ्यास<br>द्वितीय भाषा के रूप में हिंदी/अंग्रेजी<br>का शिक्षण | Contrastive Analysis<br>Pattern-Drill.<br>Teaching of Hindi/English as a Second<br>Language                 |
| 4. | भाषाशिक्षण के सहायक उपकरण<br>भाषा प्रयोगशाला<br>आधुनिक भाषाशिक्षण                        | Language Testing Aids<br>Language-Laboratory<br>Modern Language-Testing                                     |

### निर्धारित पुस्तकें Prescribed Books :

- |     |                                                                                       |   |                                                                                     |
|-----|---------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------|
| 1.  | हिंदी भाषाशिक्षण                                                                      | : | भोलानाथ तिवारी एवं कौशल चंद्र भाटिया<br>(लिपि प्रकाशन, अंसारी रोड नई दिल्ली)        |
| 2.  | द्वितीय भाषाशिक्षण भाषावैज्ञानिक<br>विधि                                              | : | मोहब्बत सिंह मानसिंह चौहान एवं लक्ष्मीनारायण<br>शर्मा (बाहरी पब्लिकेशंस, नई दिल्ली) |
| 3.  | भाषाशिक्षण तथा भाषाविज्ञान                                                            | : | (संपा.) ब्रजेश्वर वर्मा एवं अन्य (केंद्रीय हिंदी<br>संस्थान, आगरा)                  |
| 4.  | अन्य शिक्षण                                                                           | : | महावीर सरन जैन (विनोद पुस्तक मंदिर, आगरा)                                           |
| 5.  | हिंदी भाषाशिक्षण                                                                      | : | मनोरमा गुप्त (केंद्रीय हिंदी संस्थान, आगरा)                                         |
| 6.  | मानक हिंदी और बांगरू का<br>व्यतिरेकी विश्लेषण                                         | : | सोमदत्त बंसल (हरियाणा साहित्य अकादमी,<br>चंडीगढ़)                                   |
| 7.  | हिंदी शिक्षण—पद्धति                                                                   | : | वैद्यनाथ वर्मा (बिहार हिंदीग्रंथ अकादमी, पटना)                                      |
| 8.  | पंजाबी—हिंदी क्रियापदबंध व्यतिरेकी<br>विश्लेषण                                        | : | भारत भूषण (केंद्रीय हिंदी संस्थान, आगरा)                                            |
| 9.  | त्रुटि—विश्लेषण : सिद्धांत और<br>व्यवहार                                              | : | रामकमल पांडे (केंद्रीय हिंदी संस्थान, आगरा)                                         |
| 10. | भाषाशिक्षण                                                                            | : | रविन्द्रनाथ श्रीवास्तव (मैकमिलन, दरियागंज, नई<br>दिल्ली)                            |
| 11. | हिंदी—संरचना का अध्ययन—अध्यापन                                                        | : | लक्ष्मीनारायण शर्मा (केंद्रीय हिंदी संस्थान, आगरा)                                  |
| 12. | अन्य भाषाशिक्षण के कुछ पक्ष                                                           | : | (संपा.) अमर बहादुर सिंह (केंद्रीय हिंदी संस्थान,<br>आगरा)                           |
| 13. | हिंदी शिक्षण विधि                                                                     | : | रघुनाथ सफाया (पंजाब किताब घर, जालंधर)                                               |
| 14. | भाषाविज्ञान की अधुनातन प्रवृत्तियाँ<br>और द्वितीय भाषा के रूप में हिंदी<br>भाषाशिक्षण | : | शिवेन्द्र किशोर वर्मा (केंद्रीय हिंदी संस्थान,<br>आगरा)                             |

*Shail Sheer*  
24-09-2018

## प्रश्नपत्र द्वितीय

व्याकरण : सिद्धांत और व्यवहार


**Grammar : Theoretical and Practice**

- |    |                                                                                                                                                  |                                                                                                                                                     |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | व्याकरण : अर्थ, प्रकृति, व्याप्ति एवं प्रकार                                                                                                     | Grammar : Meaning, Nature, Scope and Types.                                                                                                         |
| 2. | पारंपरिक व्याकरण : ग्रीक परंपरा, रोमन/लैटिन परंपराएँ, भारतीय परंपरा                                                                              | Traditional Grammar : Greek Tradition, Roman/Latin Tradition, Indian Tradition.                                                                     |
| 3. | सस्यूर की भाषा एवं वाक् की अवधारणा वर्णनात्मक/संरचनात्मक व्याकरण : अमरीकी संरचनावाद, निकटस्थ अवयव-विश्लेषण, अंतःकेन्द्रिक एवं बहिःकेन्द्रिक रचना | Saussure's Concept of Language and Parole. Descriptive Structural Grammar, Immediate Constituent Analysis, Endocentric and Exocentric Construction. |
| 4. | रूपांतरणपरक-प्रजनक व्याकरण की रूपरेखा भाषा-सामर्थ्य एवं भाषा-व्यवहार आंतरिक एवं बाह्य संरचना                                                     | Transformational-Generative Grammar, Competence and Performance. Deep and Surface Structure.                                                        |
| 5. | प्रजनक अर्थविज्ञान की अवधारणा कारक व्याकरण और संप्रेषण व्याकरण का परिचय भाषा-प्रकार्य की अवधारणा                                                 | Generative Semantics : Case-Grammar. Communicative Grammar Concept of Language Function.                                                            |

### निर्धारित पुस्तकें Prescribed Books :

- |     |                                            |   |                                                                  |
|-----|--------------------------------------------|---|------------------------------------------------------------------|
| 1.  | सैद्धांतिक भाषाविज्ञान                     | : | जॉन ल्यंस (अनु. सत्यकाम वर्मा)                                   |
| 2.  | भाषाविज्ञान एवं भाषा                       | : | कपिलदेव द्विवेदी (विश्वविद्यालय प्रकाशन, नई दिल्ली)              |
| 3.  | आधुनिक भाषाविज्ञान                         | : | भोलानाथ तिवारी (लिपि प्रकाशन, नई दिल्ली)                         |
| 4.  | आधुनिक भाषाविज्ञान का इतिहास               | : | महेश प्रसाद जयसवाल (म.प्र. हिंदी ग्रंथ अकादमी भोपाल)             |
| 5.  | आधुनिक भाषाविज्ञान                         | : | कृपाशंकर सिंह और चतुर्भुज सहाय (नेशनल पब्लिशिंग हाउस, नई दिल्ली) |
| 6.  | संप्रेषणपरक-व्याकरण : सिद्धांत और प्रारूप  | : | सं. सुरेश कुमार (केंद्रीय हिंदी संस्थान, आगरा)                   |
| 7.  | हिंदी का नवीनतम बीज-व्याकरण                | : | रमेश चंद्र महरोत्रा एवं चित्त रंजन कर (पहचान प्रकाशन)            |
| 8.  | भारतीय भाषाशास्त्रीय चिंतन                 | : | सं. विद्यानिवास मिश्र आदि (राजस्थान हिंदी ग्रंथ अकादमी, जयपुर)   |
| 9.  | A Short History of Linguistics             | : | R.H. Robin (Longmans)                                            |
| 10. | Lexical-Functional Grammar                 | : | George M. Morn (Mouton)                                          |
| 11. | Language and Linguistics                   | : | John Lyons (Cambridge University Press)                          |
| 12. | Halliday : System and Function in Language | : | (Ed.) Gunther Kress (Oxford University Press)                    |
| 13. | A Communicative Grammar of English         | : | G.N. Leech and Jan Svartrik (Long man)                           |

प्रश्नपत्र तृतीय

  
24-09-2018

## भाषाशिक्षण—विधियाँ Language Teaching Methods

- |    |                                                                                          |                                                                                                             |
|----|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 1. | भाषाशिक्षण एवं भाषार्जन<br>भाषाशिक्षण का उद्देश्य और महत्व<br>भाषा—संस्कृति              | Language Teaching and Language Acquisition<br>Aims and Importance of Language-Teaching.<br>Language Skills. |
| 2. | भाषा—प्रशिक्षण<br>शिक्षण विधियाँ<br>त्रुटि विश्लेषण<br>मातृभाषा का आघात                  | Language Testing<br>Teaching Methods<br>Error-Analysis<br>Impact of Mother Tongue                           |
| 3. | व्यतिरेक विश्लेषण<br>साँचा अभ्यास<br>द्वितीय भाषा के रूप में हिंदी/अंग्रेजी<br>का शिक्षण | Contrastive Analysis<br>Pattern-Drill.<br>Teaching of Hindi/English as a Second<br>Language                 |
| 4. | भाषाशिक्षण के सहायक उपकरण<br>भाषा प्रयोगशाला<br>आधुनिक भाषाशिक्षण                        | Language Testing Aids<br>Language-Laboratory<br>Modern Language-Testing                                     |

### निर्धारित पुस्तकें Prescribed Books :

- |     |                                                                                       |   |                                                                                     |
|-----|---------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------|
| 1.  | हिंदी भाषाशिक्षण                                                                      | : | भोलानाथ तिवारी एवं कौशल चंद्र भाटिया<br>(लिपि प्रकाशन, अंसारी रोड नई दिल्ली)        |
| 2.  | द्वितीय भाषाशिक्षण भाषावैज्ञानिक<br>विधि                                              | : | मोहब्बत सिंह मानसिंह चौहान एवं लक्ष्मीनारायण<br>शर्मा (बाहरी पब्लिकेशंस, नई दिल्ली) |
| 3.  | भाषाशिक्षण तथा भाषाविज्ञान                                                            | : | (संपा.) ब्रजेश्वर वर्मा एवं अन्य (केंद्रीय हिंदी<br>संस्थान, आगरा)                  |
| 4.  | अन्य शिक्षण                                                                           | : | महावीर सरन जैन (विनोद पुस्तक मंदिर, आगरा)                                           |
| 5.  | हिंदी भाषाशिक्षण                                                                      | : | मनोरमा गुप्त (केंद्रीय हिंदी संस्थान, आगरा)                                         |
| 6.  | मानक हिंदी और बांगरू का<br>व्यतिरेकी विश्लेषण                                         | : | सोमदत्त बंसल (हरियाणा साहित्य अकादमी,<br>चंडीगढ़)                                   |
| 7.  | हिंदी शिक्षण—पद्धति                                                                   | : | वैद्यनाथ वर्मा (बिहार हिंदीग्रंथ अकादमी, पटना)                                      |
| 8.  | पंजाबी—हिंदी क्रियापदबंध व्यतिरेकी<br>विश्लेषण                                        | : | भारत भूषण (केंद्रीय हिंदी संस्थान, आगरा)                                            |
| 9.  | त्रुटि—विश्लेषण : सिद्धांत और<br>व्यवहार                                              | : | रामकमल पांडे (केंद्रीय हिंदी संस्थान, आगरा)                                         |
| 10. | भाषाशिक्षण                                                                            | : | रविन्द्रनाथ श्रीवास्तव (मैकमिलन, दरियागंज, नई<br>दिल्ली)                            |
| 11. | हिंदी—संरचना का अध्ययन—अध्यापन                                                        | : | लक्ष्मीनारायण शर्मा (केंद्रीय हिंदी संस्थान, आगरा)                                  |
| 12. | अन्य भाषाशिक्षण के कुछ पक्ष                                                           | : | (संपा.) अमर बहादुर सिंह (केंद्रीय हिंदी संस्थान,<br>आगरा)                           |
| 13. | हिंदी शिक्षण विधि                                                                     | : | रघुनाथ सफाया (पंजाब किताब घर, जालंधर)                                               |
| 14. | भाषाविज्ञान की अधुनातन प्रवृत्तियाँ<br>और द्वितीय भाषा के रूप में हिंदी<br>भाषाशिक्षण | : | शिवेन्द्र किशोर वर्मा (केंद्रीय हिंदी संस्थान,<br>आगरा)                             |

*Shankar*  
24-09-2018



15. व्यतिरेकी भाषाविज्ञान : विजय राघव रेड्डी (विनोद पुस्तक मंदिर, आगरा)
16. अनुप्रयुक्त भाषाविज्ञान : (संपा.) रविन्द्रनाथ श्रीवास्तव एवं अन्य (आलेख प्रकाशन, नई दिल्ली)
17. Modern Language-Teaching : (Ed.) Hars Jalling (Oxford University Press)
18. Language Teaching : Robert Lado (Megrow-Hill Pub. Co. Ltd. Bombay)
19. Linguistics in Language Teaching : D.A. Wilkin (Edward Arnold Ltd., 25 Hill Street, London.)
20. Papers in Contrastive Linguistics : (Ed.) Gerhard Hickel (Combridge University Press)
21. Problems Principles in Language Study : Devid Abercrombic (Longman)
22. Outline Guide for the Practical Study of Foreign : Bloomfield (Linguistic Society of America)
23. English Conversation Practice : Grant Taylor (Tata Mc Graw Pub. Company, New Delhi)
24. Introductions to English Language : Vol. I, II and III, R.N. Ghosh, H.N.L. Sastri, B.K. Das (OUP Madras)
25. Lectures on Teaching English in India : Champion (OUP. Madras)
26. Linguistics and English Grammar : H.A. Gleason (Holf, Rhiehart and Winston)

*Shail*  
24-09-2018



**M. Phil.  
English  
2018-19**



**PT. RAVISHANKAR SHUKLA UNIVERSITY  
RAIPUR  
CHHATTISGARH**

*Shreeja*  
*26.4.18*  
*26/4/18*  
*Madhu*

## SYLLABUS FOR 2018-19

### M.PHIL. ENGLISH

#### Aims and Objectives:

The main aim of this level is to prepare the learner for research programmes leading to a doctoral degree. Keeping with this goal the major aims and objectives of the M.Phil. Programme would be as under.

1. Consolidating and reinforcing the aims and objectives envisaged at the M.A. level.
2. Introduction to research methodology, particularly to the area of research.
3. Introduction to technique of documentation and write up in English Studies.
4. Emphasizing different approaches to research; interdisciplinary, comparative.
5. Updating knowledge in areas of research through advanced courses pertinent to those areas.

#### M.Phil.(English)

| No. | Theory Paper                          | Marks |
|-----|---------------------------------------|-------|
| 1.  | Research Methodology                  | 100   |
| 2.  | Contemporary Literary Criticism       | 100   |
| 3.  | Colonial & Post-Colonial Studies      | 100   |
| 4.  | Seminar Based on Theory papers(1,2,3) | 50    |
| 5   | Dissertation- Script Writing          | 75    |
|     | - Seminar on Dissertation             | 50    |
|     | - Viva                                | 25    |
|     | Grand Total                           | 500   |

*S. Srinivas*  
26.4.18  
26/4/18  
Madhu

**PAPER - I**  
**RESEARCH METHODOLOGY**

Time: 3 hours

100 Marks

The paper shall consist of five units and <sup>the</sup> candidates are to answer five questions, one from each.

Unit-I The research paper as a form of exploration

- Research Skills
- Aim and Scope of research
- Type<sup>s</sup> of research
- Major theoretical approaches to linguistic research
- Research design

Unit-II Rudiments of Textual Criticism and

- Using the library and other information sources.
- The central catalogue or Central information system.
- Type of reference works- indexes, bibliographies, collection of abstracts, guides to research, dictionaries, encyclopedia, biographical sources, Yearbooks, Atlases, Gazette<sup>r</sup>s, Statistical data sources.

Unit-III Publication forms of reference works

- Print and electronic
- Online databases
- CD-ROM databases
- Location of library materials
- Other library resources and services

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- Compiling a working bibliography
- Unit-IV The Mechanics of Writing
  - Taking notes
  - Plagiarism
  - Outlining, Thesis Statement and final outline
  - Language and style
  - The format of a research paper.

- Unit-V Documentation
  - Documenting Sources
  - MLA style
  - Style Sheet practice
  - Other Systems of documentation
  - Endnotes and footnotes

Books Recommended:

1. D.C. Greetham, Textual Scholarship: An Introduction (Garland Publishing, Hamden, 1994)
2. James Thorpe, Principles of Textual Criticism (Huntington Library, Son Marino, 1972)
3. ~~Joseph Gibaldi~~, MLA Handbook, 8<sup>th</sup> Edition. ~~2016~~. The Modern Language Association of America, 2016.
4. Anderson et al' Thesis and Assignment Writing.

*Singh*  
26.4.18

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Meelhu

## PAPER -II

### CONTEMPORARY LITERARY CRITICISM

Time:3 hours

100 Marks

The paper will be of five units and <sup>the</sup> candidates are required to answer one question from each unit. Question number 1 from Unit-I will be a question on critical concepts and perspectives. Candidates are to attempt any four in about four hundred words each.

|        |                                      |                                     |
|--------|--------------------------------------|-------------------------------------|
| Unit-I | Critical concepts and perspective    |                                     |
|        | Affective fallacy                    | Hermeneutics and interpretation     |
|        | Allegory                             | Ideology                            |
|        | Aporia                               | Intentional fallacy                 |
|        | Binary opposition                    | Motif and Theme                     |
|        | Carnival                             | Patriarchy                          |
|        | Contradiction                        | Readerly/Writerly                   |
|        | Conventions                          | Semiotics                           |
|        | Desire                               | Structure                           |
|        | Discourse                            | Syntax                              |
|        | Empathy and Sympathy                 | Text                                |
|        | Form and Content                     | Feminist Criticism                  |
|        | F.R. Leavis and<br>Marxist Criticism | Twentieth Century British Criticism |
|        | Narratology                          |                                     |
|        | New Historicism                      |                                     |

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Madhu

Phenomenological Criticism

Psychoanalytic Criticism

Reader Response Criticism

Russian Formalism

Structuralism and Post-Structuralism

Unit-II Modernism and Formalism

Prescribed Essays

Cleanth Brooks: "The Language of Paradox"

W.K. Wimsatt, Jr. and Monroe C. Beardsley: "The Intentional Fallacy"

Viktor Shklovsky: 'Art as Technique

Rhetoric and Reader Response

Prescribed Essays

Stanley Fish, "Interpreting the Variorum"

Walter J. Ong, "The Writer's Audience is Always a Fiction"

Unit-III Structuralism and Semiotics

Prescribed Essays

Ferdinand de Saussure : "The Object of Linguistics

"Nature of the Linguistics Sign"

Julia Kristeva : 'Stabat mater'

Deconstruction and Poststructuralism

Jacques Derrida 'Structure, Sign and play in the Discourse of the Human Sciences'

Paul de man 'semiology and Rhetoric'.

Shreeja  
26.4.18  
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Madhu

Unit-IV Psychology and psychoanalysis

Prescribed Essays

Peter Brooks : "Freud's Masterplot"

Jacques Lacan : "Seminar on the purloined Letter"

Marxism and the new Historicism

Raymond Williams : Base and Superstructure in Marxist Cultural Theory

Terry Eagleton : "Brecht and Rhetoric"

Unit-V Feminism

Elaine Showalter<sup>a</sup> : "Feminist Criticism in the Wilderness"

Helene Cixous : "Castration or Decapitation"

(The Prescribed essays can be found in the anthology named Contemporary literary criticism- Literary and Cultural Studies, eds. Robert con Davis and Ronald Schleiper, Longman New York, 1989)

Further Reading

1. a kidge(ed) Twentieth Century Literary Criticism: A Reader(London: Longman72)
2. Dennis Walder(ed), Literature in the Modern World, Critical Essays and Dowments(Oxford:Oxford Univ.press,1990)
3. Cleagth Brooks, The Well Wrought Urn(New York:Harcourt Brace,1947)
4. F.R.Leavis,New Bearings in English Poetry(London;Chatto & Windus,1933 )
5. I.A.Richards, Principles of Literary criticism(London:kegan Paul,Trench,Trubnes,1924)

*Shreeja*  
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*Madhu*  
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6. Tony Bennett, Formalism and Marxism (London: Tetheun, 1979)
7. Northrop Frye, Anatomy of Criticism (Princeton: Princeton University Press, 1957)
8. Jonathan Culler, Saussure (Glasgow: Collins, 1976)
9. David Robey (ed), Structuralism: An Introduction (Oxford: Clarendon Press, 1973)
10. Geoffrey Hartman (ed), Deconstruction and Criticism (London: ...)
11. Mary Eapleton (ed), Feminist Literary Criticism (London: Longman, 1991)
12. Sandra Gilbut and Sasan Gubar, The Madwoman in the Attic: The Women Writes and the nineteenth century Literary Imagination (New haven: Yale University Press, 1979)
13. Julia Kristeva, Desire in Language: a Semiotic Approach to Literature and Art (New York: Columbia University Press, 1980)
14. Kate Millett, Sexual Politics (London: Virago, 1969)
15. Elaine Showalter, A Literature of their own: British women novelists from bronte to lessing. (Princeton: Princeton University Press, 1977)
16. M.M. Bakhtin, The Dialogic Imagination (Austin: University of Texas Press, 1981)
17. Wolfgang Iser, The Implied Reader (Baltimore: Johns Hopkins University Press, 1974)
18. Jane P. Tompkins (ed), Reader -Response Criticism (Baltimore: Johns Hopkins University Press, 1980)
19. Michael Foucault, Madness and Civilization (London: Tavistock, 1976)
20. Gayatri Chakravorty Spivak, In other worlds: Essays in cultural politics (London: Methuen, 1987)

*Handwritten notes:*  
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 Madhu

21. Soshana Felman, Jacques Lacan and the Adventue of Insight: Psychoanalysis and Contemporary Culture (Compridge Harvard University Press, 1987)
22. Elizabeth Wright, Psychoanalytic Criticism: Theory in Prac (London: Methen, 1984)

### PAPER- III

### COLONIAL AND POST - COLONIAL STUDIES

#### Unit-I

1. B. Ashcroft, G. Griffiths & H. Tiffin, The Empire Writes Back (Routledge, London, 1989)
2. Homi <sup>K.</sup>Bhabha, Nation and Narration (Routledge, London, 1990)
3. Harish Trivedi, Colonial Transactions <sup>: English Literature and India</sup> (Papyrus, Calcutta, 1993)

#### Unit-II

1. Edward <sup>W.</sup>Said, Orientalism (Routledge and Kegan Paul, London, 1978)
2. Ngugi wa Thiongo, Homecoming (Heinemann, London, 1981)

#### Unit-III

|                 |                        |
|-----------------|------------------------|
| E. M. Forster   | : A Passage to India   |
| Rudyard Kipling | : Kim                  |
| George Orwell   | : Nineteen eighty four |

#### Unit-IV

|                  |                                 |
|------------------|---------------------------------|
| Chinua Achebe    | : Thing <sup>B</sup> Fall Apart |
| Ngugi wa thiongo | : A grain of Wheat              |

June 26.4.18  
 26/4/18  
 Madhu

Alan Paton

:Cry, the Beloved Country

Unit-V

R. N Tagore

:Gora

R.K.Narayan

: Waiting for the Mahatma

Salman Rushdie

: Midnight's Children

Note: Based on the texts prescribed in each unit, candidates are required to answer on from each unit, a total of five.

#### PAPER- IV

#### DISSERTATION

The scheme of marking shall be as follows:

|                 |                                         |
|-----------------|-----------------------------------------|
| A. Dissertation | 200 marks(100internal and 100 External) |
| B. Seminar      | 40 marks                                |
| C. Viva-Voce    | 60 marks                                |
| Total           | 300 marks                               |

The topics for dissertation shall be from the following areas.

1. Twent<sup>ie</sup><sub>th</sub> century English Literature

a) Poetry

b) drama

c)Fiction

d)Criticism

2. Nineteenth and Twentieth Century American Literature.

a) Poetry

b) drama

c)Fiction

d)Criticism

3. New Literatures in English

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- a) Australian Literature      b) African Literature
- c) Caribbean Literature
- 4. Indian Writing in English
- 5. History of English Language
- 6. Popular Literature in English
  - a) Detective Fiction      b) The Trifles
  - c) Popular romantic fiction      d) Humour
  - e) The Comic strip, Comic books and Cartoons.
- 7. Literature and Science      a) The Science Fiction
- 8. Literature and Gender
- 9. Literature and Film
  - a) The adaption of literature to film: Theory and analysis
  - b) The historical relation between film and literature: their interaction and mutual influence.
- 10. The Literature of Indo-European Encounters
- 11. Native Literature in Translation.
- 12. Literature and Race
- 13. Marginalized Literature.

*J. Singh*  
26.4.18

*26/4/18*

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*Moolhu*

**एम.फिल.  
हिन्दी पाठ्यक्रम  
2018-19 से प्रभावी**

**प्रस्तावना**

विश्वविद्यालयीन शोध संस्थानों का सर्वाधिक महत्वपूर्ण प्रदेय है – शोध कार्य । इस शोध कार्य को व्यवस्थित करने के लिये एम.फिल. पाठ्यक्रम के अन्तर्गत शोध-प्रविधि का विधिवत् प्रशिक्षण दिया जाना आवश्यक है । इस पाठ्यक्रम के अंतर्गत ऐसे पाठ्य विषयों का समावेश किया जा रहा है, जो शोधार्थी के लिए आवश्यक है, किन्तु जिनका संज्ञान उसे पहले नहीं कराया जा सका है ।

**पाठ्य विषय**

इस पाठ्यक्रम में दो सैद्धांतिक प्रश्न पत्र, एक प्रस्तावित शोध-कार्य से संबंधित प्रश्न पत्र, एक लघु शोध-प्रबंध लेखन और मौखिकी का प्रावधान किया गया है । संपूर्ण परीक्षा 500 अंको की होगी । इसकी अवधि एक वर्ष रखी गयी है ।

| क्रं. | विषय           | प्रश्नपत्र का शीर्षक                | सैद्धांतिक | सेमीनार | योग |
|-------|----------------|-------------------------------------|------------|---------|-----|
| 1.    | सैद्धांतिक-1   | अनुसंधान की प्रविधि और प्रक्रिया    | 80         | 20      | 100 |
| 2.    | सैद्धांतिक-2   | हिन्दी साहित्य की वैचारिक पृष्ठभूमि | 80         | 20      | 100 |
| 3.    | शोध-कार्य      | शोध-आलेख                            | 80         | 20      | 100 |
|       |                |                                     | कुल अंक    |         | 300 |
| 4.    | लघु शोध प्रबंध | Script Writing                      |            |         | 100 |
|       |                | लघुशोध प्रबंध पर आधारित सेमीनार     |            |         | 50  |
|       |                | मौखिकी                              |            |         | 50  |
|       |                |                                     | कुल अंक    |         | 200 |
|       |                |                                     | महायोग     |         | 500 |

A. G. B.  
23/06/18

डॉ. अनुसुईया अग्रवाल डी.लिट्.  
अध्यक्ष  
हिन्दी अध्ययन मंडल  
पं. रविशंकर शुक्ल विश्वविद्यालय  
रायपुर (छत्तीसगढ़) 492 001

**प्रश्नपत्र-1**  
**अनुसंधान की प्रविधि और प्रक्रिया**

1. अनुसंधान का स्वरूप ।
2. अनुसंधान और आलोचना ।
3. अनुसंधान के मूल तत्व ।
4. अनुसंधान के प्रकार ।
5. विषय-निर्वाचन ।
6. सामग्री- संकलन: हस्तलेखों का संकलन और उपयोग ।
7. शोध-कार्य का विभाजन, अध्याय-उपशीर्षक और अनुपात ।
8. रूपरेखा, विषय-सूची, प्रस्तावना, भूमिका, सहायक ग्रंथों की सूची, संदर्भ-उल्लेख, पाद-टिप्पणी ।
9. साहित्यिक अनुसंधान में ऐतिहासिक तथ्यों और पद्धतियों का उपयोग ।
10. साहित्यिक अनुसंधान में समाजशास्त्रीय प्रविधि का उपयोग ।
11. हिन्दी अनुसंधान से संबंधित विषयों की भूमिका ।
12. पाठालोचन के मुख्य सिद्धांत ।
13. भाषा वैज्ञानिक अनुसंधान ।

**सहायक ग्रंथ-**

1. शोध और सिद्धांत - डॉ. नगेन्द्र, नेशनल पब्लिशिंग, नईदिल्ली ।
2. शोध-तंत्र और सिद्धांत - डॉ. शैल कुमारी, लोकवाणी प्रकाशन, दिल्ली ।
3. शोध और समीक्षा- डॉ. परमेश्वरलाल गुप्ता, बंबई, 1990
4. शोध-तत्व और खोज- डॉ. रामेश्वरलाल खंडेलवाल, बल्लभ विद्या नगर गुजरात, 1968
5. शोध और समीक्षा - डॉ. सुरेशचन्द्र गुप्ता, आगरा, 1967
6. शोध प्रक्रिया एवं विवरणिका- डॉ. सनूनार सिंह शर्मा, 1964, लखनऊ
7. अनुसंधान स्वरूप एवं प्रविधि - डॉ. रामगोपाल शर्मा दिनेश, राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर 1994.
8. नवीन शोध विज्ञान- तिलक सिंह, प्रकाशन संस्थान, दिल्ली
9. नगेन्द्र नेशनल पब्लिशिंग, नई दिल्ली ।
10. फंडामेंटल ऑफ कम्प्यूटर - प्रज्ञा प्रकाशन ।
11. भारतीयता के अमर स्वर - संपादक : धनंजय वर्मा, म.प्र. हिन्दी ग्रंथ अकादमी ।

AA/b  
23/06/18

डॉ. अनुसुईया अग्रवाल डी.लिट्.  
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## प्रश्न पत्र 2

### हिन्दी साहित्य की वैचारिक पृष्ठभूमि

#### पाठ्यविषय

विचारधारा और साहित्य  
मध्ययुगीन बोध का स्वरूप  
विभिन्न धर्म साधनाएँ और वैष्णव धर्मान्दोलन  
मध्ययुगीन-बोध और आधुनिक -बोध में साम्य-वैषम्य  
आधुनिकता-बोध और औद्योगिक -संस्कृति  
राष्ट्रीयता और अन्तर्राष्ट्रीयता  
पुनर्जागरण, पुनरुत्थान और हिन्दी लोक-जागरण  
हिन्दी साहित्य से संबद्ध विशिष्ट मतवाद, गांधीवाद, मार्क्सवाद, मनोविश्लेषणवाद,  
अस्तित्ववाद, उत्तर-आधुनिकतावाद  
परम्परा और आधुनिकता  
राष्ट्रीय स्वातंत्र्य आंदोलन  
भारतीय संवैधानिक व्यवस्था-लोकतंत्र, समाजवाद, पंथनिरपेक्षता, दलित-चेतना,  
स्त्री-विमर्श आंचलिकता और महानगर-बोध ।  
साहित्य का अंतर्विधापरक, अध्ययन-साहित्य का समाजशास्त्र, इतिहास-दर्शन,  
मनोवैज्ञानिक अध्ययन, सांस्कृतिक अध्ययन, भाषा वैज्ञानिक विवेचन, भाषा प्रौद्योगिकी  
बोध ।

#### सहायक ग्रंथ-

1. साहित्य और विचारधारा- ओमप्रकाश ग्रेवाल, पंचकूला, 1904 हरियाणा
2. इतिहास और आलोचना-नामवरसिंह, राजकमल प्रकाशन, नईदिल्ली 1962
3. साहित्य का स्वरूप- नंदकिशोर आचार्य, वाग्देवी प्रकाशन बीकानेर
4. आधुनिकतावाद- दुर्गाप्रसाद गुप्ता, आकाशदीप प्रकाशन, नई दिल्ली
5. आधुनिकता और हिन्दी साहित्य - इन्द्रनाथ मदान
6. आधुनिकता के बारे में तीन अध्याय- डॉ. धनंजय वर्मा, विद्या प्रकाशन, दिल्ली
7. आलोचना के सारोबार - डॉ. धनंजय वर्मा, साहित्य कला भंडार, इलाहाबाद
8. समकालीन साहित्यय - नया परिदृश्य - रामस्वरूप चतुर्वेदी अनुभूति प्रकाशन, इलाहाबाद
9. सौन्दर्यशास्त्रीय समीक्षा- एस-टी नरसिम्हाचारी-वाणी प्रकाशन, नई दिल्ली
10. स्त्री: उपेक्षिता - सिमोनद वोउवार, अनुवाद- डॉ. प्रभा खेतान, किताबघर नईदिल्ली
11. स्त्री: सारोबार- आसारानी वीरा, किताबघर प्रकाशन, नईदिल्ली
12. हरिजन से दलित, राजकिशोर, संपादक - किताबघर प्रकाशन नई दिल्ली
13. दलित साहित्य सौन्दर्यशास्त्र- शरणकुमार लिम्बाले, वाणी प्रकाशन, नई दिल्ली
14. संस्कृति के चार अध्याय- रामाधारी सिंह दिनकर
15. भाषा और समाज - रामविलास शर्मा, प्रगति प्रकाशन, नई दिल्ली
16. साहित्य और सामाजिक परिवर्तन - बद्दीनारायण, वाणी प्रकाशन, नईदिल्ली
17. साहित्य के बुनियादी सारोबार - डॉ. कर्णसिंह चौहान- वाणी प्रकाशन नईदिल्ली

Mrb  
23/06/18

डॉ. अनुसुईया अग्रवाल डी.लिट्.

अध्यक्ष

हिन्दी अध्ययन मंडल

डॉ. रविशंकर शुक्ल विश्वविद्यालय  
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**प्रश्नपत्र-3**  
**शोध - आलेख**

इस प्रश्नपत्र के अंतर्गत निम्नलिखित वर्गों में से किसी एक वर्ग से संबंधित विषय पर गहन अध्ययन किया जाएगा । इसका अध्यापन विभागीय विषय विशेषज्ञ द्वारा या सेमीनार के रूप में किया जाना चाहिए । विषय का आबंटन विभागीय व्यवस्था के अंतर्गत किया जाएगा । इसी विषय का परिविस्तार विद्यार्थी चतुर्थ प्रश्नपत्र में निर्धारित लघु शोध-प्रबंध के रूप में और इसी विषय को विस्तारित करके पी.एच.डी. उपाधि हेतु शोध प्रबंध भी प्रस्तुत कर सकता है ।

1. आदिकालीन हिन्दी साहित्य
2. मध्यकालीन हिन्दी साहित्य
3. आधुनिक हिन्दी साहित्य
4. लोक-साहित्य तथा जनपदीय साहित्य
5. भाषा विज्ञान एवं प्रयोजनमूलक हिन्दी
6. काव्यशास्त्र तथा समीक्षा सिद्धांत

यह आवश्यक है कि शोध विषय का चयन उपयोगिता एवं मौलिकता के आधार पर किया जाए । विद्यार्थी के मार्गदर्शन हेतु विशेषज्ञ प्राध्यापकों का निर्देशन सुलभ कराया जाए । कक्षा अध्यापन/सेमीनार की उचित व्यवस्था अपेक्षित है ।

इस शोध-आलेख का मूल्यांकन उत्तरपुस्तिका के रूप में 80 अंकों में से किया जाएगा ।

**संदर्भ ग्रंथ-**

1. हिन्दी साहित्य का इतिहास - आचार्य रामचन्द्र शुक्ल, साहित्य सम्मेलन प्रयाग
2. हिन्दी साहित्य का इतिहास- आचार्य हजारी प्रसाद द्विवेदी
3. हिन्दी साहित्य का वृहद इतिहास - डॉ. नगेन्द्र - नेशनल प्रकाशन
4. आधुनिक साहित्य-आचार्य नन्ददुलारे बाजपेयी-लोकभारती, इलाहाबाद
5. नया साहित्य-नये प्रश्न-आचार्य नन्ददुलारे बाजपेयी- भारती भण्डार, इलाहाबाद
6. आधुनिकता के प्रतिरूप - डॉ. धनंजय वर्मा- विद्या प्रकाशन दिल्ली
7. समावेशी आधुनिकता - डॉ. धनंजय वर्मा- विद्या प्रकाशन दिल्ली
8. हस्तक्षेप - डॉ. धनंजय वर्मा- विद्या प्रकाशन दिल्ली
9. काव्य शास्त्र - आचार्य हजारी प्रसाद द्विवेदी, आगरा
10. पाश्चात्य समीक्षा की रूपरेखा - साहित्य शास्त्र-रामसागर दास गुप्ता, राजकुमार, जयपुर
11. साहित्य शास्त्र- भारतीय एवं पाश्चात्य - रामसागर दास गुप्ता, राजकुमार, जयपुर

A-6  
23/06/18  
डॉ. अनुसुईया अग्रवाल डी.लिट्.  
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12. भारतीय समीक्षा सिद्धांत – सूर्यनारायण द्विवेदी, वाराणसी 1976
13. साहित्य इतिहास : सिद्धांत एवं स्वरूप – विजय शुक्ल, इलाहाबाद, 1978
14. समीक्षा के प्रतिमान – डॉ. गंगचरण त्रिपाठी, भिलाई
15. समीक्षा के नये प्रतिमान – सुखबीर सिंह, तक्षशिला, नई दिल्ली
16. छत्तीसगढ़ी लोकसाहित्य : अर्थ और व्याप्ति, डॉ. अनसूया अग्रवाल, शताक्षी प्रकाशन
17. हिन्दी लोकसाहित्यशास्त्र : सिद्धान्त और विकास डॉ. अनसूया अग्रवाल, भावना प्रकाशन नई दिल्ली
18. हिन्दी का प्रादेशिक लोकसाहित्यशास्त्र : डॉ. नंदलाल कल्ला, जोधपुर
19. छत्तीसगढ़ी लोकजीवन और लोकसाहित्य का अध्ययन : डॉ. शंकुतला वर्मा
20. छत्तीसगढ़ी भाषा के शब्दकोष : डॉ. चन्द्रकुमार चन्द्राकर

AArb  
23/06/18

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**प्रश्न पत्र- 4**  
**लघुशोध- प्रबंध**

इसके अंतर्गत लगभग 100 (सौ) टंकित पृष्ठों का लघु शोध-प्रबंध परीक्षणार्थ प्रस्तुत किया जाएगा । विषय का आबंटन विश्वविद्यालय के हिन्दी विभाग द्वारा किया जाएगा । विभाग ही विशेषज्ञ/निर्देशक की व्यवस्था करेगा । इस लघु शोध-प्रबंध का मूल्यांकन 100 अंको का कराया जाना अभिष्ट है, जिसका मूल्यांकन बाह्य विशेषज्ञ परीक्षक के द्वारा कराया जावेगा ।

**मौखिकी**

लघुशोध प्रबंध पर सेमीनार 50 अंको का तथा मौखिकी 50 अंको का होगा । 100 अंको की यह परीक्षा एक बाह्य एवं आंतरिक परीक्षक (जो निर्देशक भी हो सकता है) द्वारा सम्मिलित रूप से ली जायेगी ।

*Arb*  
23/06/2018

**डॉ. अनुसुईया अग्रवाल डी.लिद्.**  
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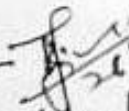
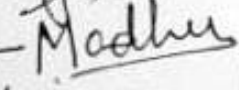

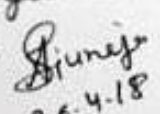
Pt Ravishankar Shukla University, Raipur Chhattisgarh

Pre -PhD Course Work in English  
(2018-2019)

Scheme of Examination

There shall be two papers. The first will be a theory paper and the second will contain project work

| S.No. | Particulars                                                 | Maximum Marks |
|-------|-------------------------------------------------------------|---------------|
| 1.    | Theory Paper Research Methodology and Computer Applications | 100           |
| 2.    | Project work, Dissertation/Project Script                   | 50            |
|       | Seminar                                                     | 30            |
|       | Viva                                                        | 20            |
|       | Grand Total                                                 | 200           |

1. Dr Kirti Tiwari —  26/4/18
2. Dr Madhu Kher —  26/4/18
3. Dr Pratibha Mukherjee —  26/4/18
4. Dr Anita Jungti —  26-4-18

## Details of the Syllabus

### Paper I

## Research Methodology and Computer Applications

### Pre-writing Stage:

**Unit-I Research:** Definition of Research, Aim and application of research: Types of research; Planning the assignment/thesis- Selection a topic; Reviewing the literature; Designing the Study.

Conducting Research:

Using modern academic libraries and other information sources and services: The Central information system; Reference work- Indexes and Bibliographies, collection of abstracts; guides to research; dictionaries: Encyclopaedia: biographical source, web sources.

**Unit-II Referencing and Plagiarism:**

Reference systems, kinds of bibliography, compiling a working bibliography, evaluating sources; taking notes.

Plagiarism: Its definition, consequences of plagiarism, forms of plagiarism, copyright infringement.

**Unit-III Computer and Internet Basics:**

MS-Word: Creating editing and formatting a document; Text entry, font, text style and alignment Understanding page layout, page set up header and footer, numbering pages; formatting paragraphs with paragraph spacing bullet and numbering; Using grammar and spell check utilities; Print preview, printing a document.

MS-Excel: Workbook, worksheets and cells; entering data in worksheet; editing and formatting data using formulas and function: generating graphs using graphs features.

MS-Power point: Working with basics for creating and delivering a power point presentation.

Introduction to Internet: Use of search engine, communication on Internet creating your e-mail address. Using e-mail facilities, surfing the internet, downloading and printing literature and using the internet.

### Writing Stage

#### Unit IV Writing Research Proposal/Research Paper/Thesis

(i) Topic Statement

1. Dr Kirati Tiwari - *Kirati*  
26/11/18
2. Dr Madhu Kher - *Madhu Kher*
3. Dr Pratibha Mukherjee - *Pratibha*
4. Dr Arida Jungia - *Arida*  
4-18 26/11/18

## Paper- II Project work

This paper will consist of research components specified in the Ph.D. regulation marks


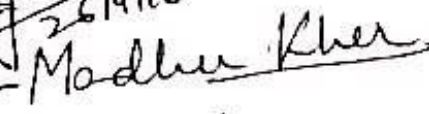

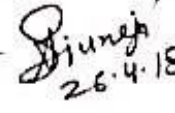
(i) Dissertation/project work leading to PhD. Work 50

This will be completed with the involvement of the research guide. It should focus on certain tasks such as literature review covering different aspects of research the field of research and the research methodology employed for the research must be critically reviewed.

(ii) Seminar 30

The candidate will be required to participate in at least two seminars of relevance or will present a paper in at least one seminar or a combination of both within the duration of the course work.

(iii) Viva on Dissertation/Project 20 The presentation of the candidate will be assessed for its clarity of thought content and skill of expression.

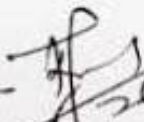
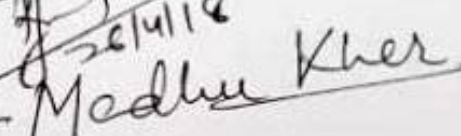
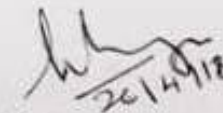
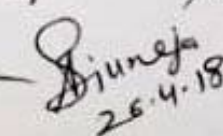
1. Dr Kirati Tiwari —  26/4/18
2. Dr Madhu Kher —  Madhu Kher
3. Dr Pratibha Mukherjee —  26/4/18
4. Dr Arida Juneja —  26.4.18

- (ii) Abstract, Keywords for Research Paper
- (iii) Aims and Objectives
- (iv) Hypothesis
- (v) Rationale /Justification for the Project
- (vi) Methodology
- (vii) Key Issues and Arguments
- (viii) A Brief Literature Review/ Review of Scholarships in the area
- (ix) Socio-cultural Background Related to the Topic
- (x) Work Plan
- (xi) Chapter Division
- (xii) Notes and Works Cited
- (xiii) Special Elements: Title page, table of contents, Headings and sub- headings, tables and figures, appendix, Bibliography: Primary and Secondary Sources, Language and style, capitalisation, pagination, spacing, use of quotations, methods of transcription, Plagiarism checking, editing.

### Post Writing Stage

#### Unit V Elements of Thesis

- (i) The Preliminaries
- (ii) Title Page
- (iii) Table of Contents
- (iv) Approval sheets
- (v) Typing Instructions
- (vi) Proof Reading

1. Dr Kirati Jivani —  26/4/18
2. Dr Madhu Kher —  Madhu Kher
3. Dr Pratibha Mukherjee —  26/4/18
4. Dr Arita Juneja —  Juneja 26.4.18

**भाषाविज्ञान में पी-एच.डी. कोर्स का पाठ्यक्रम**  
**(Syllabus for Ph.D. Course Work in Linguistics)**

**2018-19**

इस कोर्स वर्क में दो प्रश्न-पत्र होंगे, प्रत्येक प्रश्न-पत्र में अधिकतम 100 अंक हैं।

प्रथम प्रश्न-पत्र : शोध-प्रविधि एवं कम्प्यूटर का आधारभूत ज्ञान।

Research Methodology & Computer  
Fundamentals

द्वितीय प्रश्न-पत्र : साहित्य का पुनरावलोकन एवं सेमीनार

Review of Literature & Seminar

प्रथम प्रश्न-पत्र : शोध-प्रविधि एवं कम्प्यूटर का आधारभूत ज्ञान।  
Research Methodology & Computer  
Fundamentals

अधिकतम अंक-100

|                                                     |                                                                                                 |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------|
| ईकाई 1 .....                                        | 25                                                                                              |
| अंक                                                 |                                                                                                 |
| शोध का तात्पर्य, लक्ष्य तथा महत्व<br>Importance     | Meaning of Research, Aims &                                                                     |
| शोध के प्रकार                                       | Types of Research                                                                               |
| भाषिक-शोध की प्राचीन परंपराएं<br>Research           | Old Traditions of Linguistics                                                                   |
| ईकाई 2 .....                                        | 25                                                                                              |
| अंक                                                 |                                                                                                 |
| भाषिक-शोध के प्रमुख उपागम<br>ऐतिहासिक एवं तुलनात्मक | Major Theoretical Approaches in<br>Linguistic Research&Descriptive,<br>Historical & Comparative |
| शोध-विषय का चयन तथा नियमन                           | Selection of Topic of Research &<br>Formalation of Research Problem.                            |
| ईकाई 3 .....                                        | 25                                                                                              |
| अंक                                                 |                                                                                                 |
| शोध-प्रारूप                                         | Research&Design                                                                                 |
| सामग्री-संकलन के उपागम<br>Monolingual               | Approches of Data-Collection –                                                                  |
| एकभाषिक एवं द्विभाषिक                               | & Bilingual                                                                                     |
| सामग्री-संकलन के उपकरण-<br>Informant, Word          | Tools of Data- Collection,                                                                      |
| सूचक शब्द-वाक्य-लिस्ट<br>Equipments                 | Sentence-List, Card & other                                                                     |



कार्ड तथा यांत्रिक-सामग्री

प्रश्नावली-

Questionnaire

ईकार्ड 4 ..... 25  
अंक

आई.सी.टी : अर्थ, लाभ एवं  
उपयोगिताएं

ICT : Meaning, Advantages & Uses

कम्प्यूटर : परिचय और अनुप्रयोग  
Application

Computer : Indtroduction &

इंटरनेट का सिद्धांत, सर्व इंजन  
Search

Besics of Internet, e-mailing, Using

का उपयोग जैसे-गूगल व याहू आदि

Engine- like Google and Yahoo etc.

साहित्य अनुसंधान एवं तकनीक

Literature Research & Techniques

द्वितीय प्रश्न-पत्र : साहित्य का पुनरावलोकन एवं सेमीनार

Review of Literature & Seminar

अधिकतम अंक-100

(अ) प्रस्ताविक पी-एच.डी. कोर्स हेतु साहित्य एवं सेमीनार के मूल  
सिद्धांतों का पुनरावलोकन।

Review of Literature – Writing review of literature in the area of the  
proposed Ph.D

Programme..... 50 अंक

(ब) सेमीनार ..... Seminar..... 50 अंक

नोट – विद्यार्थियों को कोर्स वर्क के लिए न्यूनतम प्राप्तांक अंक 50  
प्रतिशत प्राप्त करना अनिवार्य है।

Note :- The candidate must obtain minimum 50% Marks to quality in the  
Course Work)

पी-एच.डी. कोर्स वर्क का पाठ्यक्रम  
विषय—हिन्दी

पूर्णांक-100

प्रथम प्रश्नपत्र :- अनुसंधान की प्रविधि, प्रक्रिया और कम्प्यूटर का अनुप्रयोग  
(प्रत्येक इकाई से वैकल्पिक प्रश्न पूछे जायेंगे)

ईकाई 1

25 अंक

- (1) अनुसंधान का स्वरूप, (2) अनुसंधान और आलोचना,
- (3) अनुसंधान के मूलतत्व (4) अनुसंधान के प्रकार

ईकाई 2

25 अंक

- विषय-निर्वाचन
- सामग्री- संकलन, हस्तलेखों का संकलन और उपयोग।
- शोध-कार्य का विभाजन, अध्याय-उपशीर्षक और अनुपात।
- रूपरेखा, विषय-सूची, प्रस्तावना, भूमिका, सहायक ग्रंथों की सूची, संदर्भ-उल्लेख, पाद-टिप्पणी।

ईकाई 3

25 अंक

- साहित्य अनुसंधान में ऐतिहासिक तथ्यों और पद्धतियों का उपयोग।
- साहित्यिक अनुसंधान में समाजशास्त्रीय प्रविधि का उपयोग।
- हिंदी अनुसंधान से सम्बन्ध; विषयों की भूमिका।
- पाठालोचन के मुख्य सिद्धांत।
- भाषा, वैज्ञानिक अनुसंधान।

ईकाई 4

25 अंक

- कम्प्यूटर परिचय, रूपरेखा, उपयोग तथा क्षेत्र।
- इंटरनेट-सम्पर्क उपकरणों का परिचय, प्रकार्यात्मक रखरखाव, वेब पब्लिशिंग।
- ई-मेल भेजना, प्राप्त करना, डाउनलोडिंग, अपलोडिंग और हिंदी सॉफ्टवेयर पैकेज।

टीप : उपरोक्त पाठ्यक्रम के अतिरिक्त निम्नलिखित विषयों पर जानकारी आवश्यक है।

- प्लाजियारिज्म (शब्द हरण) (शोध का नकल)
- साइटेशन इंडेक्स
- जनरल इंपेक्ट फैक्टर
- आर्ट एण्ड ह्यूमनेटिज साइटेशन इंडेक्स जरनल
- रिसर्च एथिक्स
- वर्ड प्रोसेसिंग
- ICT (इन्फोर्मेशन कम्प्यूनिकेशन टेक्नालॉजी)

प्रश्नपत्र दो 100 अंक

संबंधित साहित्य का पुनरावलोकन, सेमिनार एवं प्रोजेक्ट कार्य


1. प्रस्तावित विषय से संबंधित लघु-शोध प्रबंध 50 अंक

या

स्तरीय शोध-पत्र में प्रकाशित किसी भी लेखक के दो आलेख का पुनरावलोकन, कोई एक पुस्तक का पुनरावलोकन।

2. प्रस्तावित विषय पर आधारित सेमिनार 50 अंक

= 0 =

  
8.12.2011