



**Kanoria
PG Mahila
Mahavidyalaya
Jaipur**

SUPPORTING DOCUMENTS FOR 1.3.1

INSTITUTION INTEGRATES CROSSCUTTING ISSUES RELEVANT TO PROFESSIONAL ETHICS, GENDER, HUMAN VALUES, ENVIRONMENT AND SUSTAINABILITY INTO THE CURRICULUM

SYLLABI OF THE PROGRAMMES

Elementary Computer Applications

Maximum Marks- 100 (Main University Examinations)

Theory : Max. Marks -60

Practical : Max. Marks- 40

Each Candidate has to pass in Theory and Practical Examinations separately.

Question paper for Elementary Computer Applications, (Compulsory paper-common for B.A. / B.Sc./ B.Com. Part-I) be so set that it has 120 multiple choice questions (Bilingual) of ½ marks each. The question paper will be of duration of 2 hours. The examinees will have to give their answers on OMR Sheet only to be provided by the University whose evaluation will be done based on OMR Scanning Technology. Further the practical examination for this paper will be of 40 marks and its duration will be of 2 hours.

Unit - I

Introduction to information technology : Evolution and generation of computers, type of computers, micro , mini , mainframe and super computer. Architecture of a computer system : CPU , ALU, Memory (Ram, Rom families) cache memory, input /output devices, pointing devices.

Concept of Operating system, need types of operating systems. batch. single user, multi - processing , distributed and timeshared operating systems, introduction of Unix. Linux. Windows, Window NT. Programming languages Low level and high level languages, generation of languages , 3 GL and 4 GL languages .Graphic User Interfaces.

Unit - II

Word Processing tool : Introduction , Creating, Saving, Copy, Move and Delete. Checking Spelling and Grammer. Page Layout. interface, toolbars, ruler, menus keyboard shortcut , editing. Text Formatting, insert headers and footers. Bullets and Numbering. Find and Replace etc. Insert Table and Picture . Macro, Mail Merge.

Power Point : Creating and viewing a presentation, managing slide shows navigating through a presentation using hyperlinks, advanced navigation with action setting and action buttons. Organizing formats with Master Slides applying and modifying designs adding graphics , multimedia and special effects.

Unit - III

Electronic Spreadsheet : Worksheet types of create and open a worksheet. Entering data text numbers and formula in a worksheet inserting and deleting cells, cell formatting, inserting rows and columns in a worksheet formatting worksheets. Using various formula and inbuilt function. Update worksheet using special tools like spell check and auto correct setup the page

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Paper - II : Public Administration in India

Section - A

Historical Background of Indian Administration with special reference in influence of British period, salient features of Indian Administration. The Union Executive : President, Prime Minister and Council of Ministers. The organization and working of the Central Secretariat and Cabinet Secretariat

Section - B

Organisation of Working of Ministry of Home and Ministry of Personnel, Pensions & Public Grievances, Major Forms of Public Enterprises - Departments, Corporations and Companies, Committee on Public Undertakings, Financial Administration : Budget Formulation, Budget Enactment and Budget Execution, Comptroller and Auditor General of India, Public Accounts Committee, Estimates Committee.

Section - C

Personnel Administration : Classification of Indian Civil Services, Recruitment and Training of All India Services. Control over Administration : Legislative, Executive and Judicial; Administrative corruption, Redressal of Public Grievances, Administrative Reforms, Comparative study of Administrative Reforms, Commission I and Administrative Reforms, Commission II with reference of Personnel Administration and Corruption.

Books Recommended :

1. S.R. Maheshwari : Indian Administration.
2. P. Sharan; Public Administration in India.
3. Ramesh Arora & Rajni Goyal : Indian Public Administration.
4. Avasthi & Avasthi : Indian Administration.
5. Hoshnar Singh & Mohinder Singh : Public Administration in India : Theory and Practice.
6. बी.एल. कडिया : भारत में लोक प्रशासन
7. पी.डी. शर्मा एवं बी.एम. शर्मा : भारतीय प्रशासन
8. रविन्द्र शर्मा : भारत में लोक प्रशासन
9. सुरेन्द्र कटारिया : भारत में लोक प्रशासन
10. एस.आर. माहेश्वरी : भारतीय प्रशासन

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1. Truth-functions: negation, conjunction, disjunction, implications and equivalence.
2. Arguments and argument-forms, truth-table technique for testing the validity of arguments form and classification of statements forms.
3. Mill's methods of experimental enquiry
4. The method of deduction in propositional logic introduction of rules & simple derivation.

Suggested Readings:

- I.M. Copi : *Introduction to logic* (Hindi Translation by Pandey and Mishra and another translation available from Pearson)
- S.K. Seth and Nilima Mishra : *Tarkshastra*, Lokabharti, Allahabad

Paper II: Ethics (Indian and Western)

Unit: A

1. Introduction: Concerns and presuppositions, theory of karma.
2. Dharma: its meaning, definition, classification
3. Niskama Karma Yoga, Sthitprajna , Lokasamgraha
4. Purusarthas and their inter-relation, purusartha: sadhana and sadhaya Mulya.
5. Buddhist ethics: the four noble truths and the eight-fold path. Brahmaviharas
6. Jaina ethics : anuvratas and mahavratas, Tri ratna

Unit: B

1. Nature and scope of ethics.
2. Introduction: concerns and presuppositions; free will.
3. Teleological ethics: egoism; hedonism; utilitarianism.
4. Deontological ethics: Kant.
5. Intuitionism : Butler
6. Virtue ethics: Socrates, Plato and Aristotle.
7. Theories of punishment.

Suggested Readings :

- I.C. Sharma : *Ethical Philosophies of India.*
- S.K. Maitra : *The Ethics of the Hindus.*
- Surama Dasgupta : *Development of Moral Philosophy in India.*
- M. Hiriyanna : *The Indian Conception of Values.*
- P.V. Kane : *The History of Dharmasastras Vol.I* (Hindi translation available)
- W. Lillie : *An Introduction to Ethics.* Philippa Foot (ed.) Theories of Ethics.
- J.N. Sinha : *A Manual of Ethics* (Hindi translation available)
- दिवाकर पांडेय : भारतीय नीतिशास्त्र
- संगमलाल पांडेय : नीति दर्शन का सर्वेक्षण
- वेद प्रकाश वर्मा : नीतिशास्त्र के मूल सिद्धान्त

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2. Use of simple calculator will be allowed for statistical portions of all papers.

Paper I -Positive Psychology

Section A

1. Introduction : Definition, Goals and Assumptions of Positive Psychology; Relationship with other Branches of Psychology
2. Happiness: Meaning; Hedonic and Eudaemonic Viewpoint; Positive and Negative Affect; Theoretical Viewpoints; Determinants and Sources; Authentic Happiness; Enhancement of Happiness and Wellbeing.
3. Positive Cognitive States and Processes: Self-Efficacy, Optimism, Hope, Mindfulness, Flow and Spirituality.

Section B

4. Virtues and Strengths of Character: Classification and Measures of Human Strengths, Gallup's Clifton Strength Finder; VIA Classification; Identifying Personal Strengths.
5. Resilience: Meaning and Sources; Developmental and Clinical Perspective; Successful Aging and Growth through Trauma.
6. Self-Regulation and Self-Control: Meaning and Theories; Planning for Self-Regulation Success; Self-Regulation Problems – Goal Conflict, Goal Difficulty and Goal Disengagement.

Section C

7. Mental Health and Well-Being: Subjective Well-Being and Life Satisfaction, Social Well-Being and Psychological Well-Being, Complete State Model.
8. Emotional Intelligence: Meaning, Components and Theories; Enhancement of Emotional Intelligence.
9. Pro-Social Behavior: Empathy, Altruism, Gratitude and Forgiveness.

Books Recommended:

- Snyder, C.R. & Lopez, S.J.(2007). *Positive Psychology*. New Delhi: Sage.
- Snyder, C.R. & Lopez, J.(2005). *Handbook of Positive Psychology*. New York: Oxford.
- Baumgardner, S. & Crothers, M. (2019). *Positive Psychology* . Noida: Pearson Education India.

Paper II - Psychological Testing and Assessment

Section-A

1. Psychological Testing and Assessment:-Definition, Difference between Testing and Assessment , Tools of Psychological Assessment Interview, Case History Data, behavioral Observation, Computers as tools.
2. Psychological Test: Nature, Functions and Uses of Psychological Test, Problem of test

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- Administration, History of Psychological Testing, Characteristics of good Psychological test
3. Psychological Test Development:-Conceptualization, Test Construction, Item analysis.

Section-B

4. Reliability: Meaning, Types and Methods of Calculating Reliability.
5. Validity: Meaning, Types and Methods of Calculating Validity.
6. Norms: Meaning and Types of Norms.

Section-C

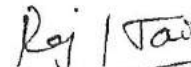
7. Types of Psychological Tests: Group and Individual, Verbal, Non-verbal and Performance Test, Self-Report Inventories, Projective Techniques, Ethical Consideration in Assessment
8. Application of Psychological Testing: Educational, Counseling and Guidance, Clinical and Organizational Setting.
9. Assessment of Personality- Big Five, 16 PF, MMPI, TAT and Rorschach. Test. Assessment of Intelligence- Binet, WAIS, SPM.

Books Recommended:

- Anastasi, A. (1997). *Psychological testing*. New York: MacMillan Co.
- Chadha, N.K. (2009). *Applied Psychometry*. New Delhi: Sage.
- Kaplan, R.M. & Saccuzzo, D.P. (2009). *Psychological Testing and Assessment*. New Delhi: Cengage Learning.
- Cohen, R.J, Swerdlik, M. & Struman, E.D. (2015). *Psychological Testing and Assessment*. New Delhi: McGraw Hill.
- अरुण कुमार सिंह (2002) : मनोविज्ञान में मापन एवं मूल्यांकन, नई दिल्ली मोतीलाल बनारसीदास।

Practical

1. Measurement of Subjective Wellbeing
2. Measurement of Forgiveness
3. Measurement of Emotional Intelligence
4. Measurement of Hope
5. Measurement of Resilience
6. Measurement of Intelligence (SPM)
7. Personality Assessment through HSPQ
8. Reaction Time
9. Mullar Lyer Illusion
10. Measurement of Level of Aspiration


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BBA Part-III

Paper I- Organizational Behaviour

Paper II- Indian Management Thought and Business Leaders

Paper III- International Business

Paper IV- Cost and Management Accounting

Paper V- E-Commerce

Paper VI- Comprehensive Viva Voce

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BUA 101: THEORY AND PRACTICE OF MANAGEMENT

Unit-I

Nature and Importance of Management, Process of Management, Managerial Roles, Functions of Management, Skills of an Effective Manager, Schools of Management Thought.

Unit-II

Planning, Managerial Decision Making, MBO, Departmentalization, Management of Change.

Unit-III

Leadership Styles, Power, Group Behavior and Team Building, Effective Communication System, MIS.

Unit-IV

Motivation Concepts, Contemporary Views of Motivation, Conflict Management, Management of Stress, Time Management, Total Quality Management.

Unit-V

Global Environment of Management, Ethics in Management, Corporate Social Responsibility, Corporate Culture.

Books Recommended

1. Prasad, L.M. : Principles and Practice of Management, Sultan Chand & Sons.
2. Vashisth, Neeru : Principles of Management, Taxman Publications Pvt. Ltd.
3. Tripathi and Reddy : Principles of Management, Tata- McGraw Hill.
4. Sudha, G.S. : Principles of Management, Ramesh Book Depot.

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BUA 201: MANAGEMENT THINKERS

Unit- I

Spirituality and Management- Concept of Spirituality, Indian Ethos and Values, Role of Values in Management, Western Values vis a vis Indian Values, Applications of Yoga in Management- Personality Development, Meditation and Management of stress.

Unit- II

Indian Epics and Management- Dimensions of Vedic Management, Bhagwad Gita, Ramayan, Kautilaya's Arthshastra.

Unit- III

Indian Thinkers- Swami Vivekanand, Mahatama Gandhi, S.K. Chakraborty, C.K. Prahlad.

Unit- IV

Western Thinkers I- F.W. Taylor, Henri Fayol, Elton Mayo, Herbert Simon.

Unit- V

Western Thinkers II- Peter F. Drucker, William G. Ouchi, Tom Peters, Gary Hamel.

Books Recommended

1. Chakraborty, S.K. and Bhattacharya, Pradip: Human Values, New Age International (P) Limited Publishers.
2. Saneev, Rinku and Khanna, Parul: Ethics and Values in Business Management, Ane Books Pvt. Ltd.
3. Khanna, S. : Vedic Management, Taxman Publications (P) Ltd.
4. Bhawad Gita as Viewed by Swami Vivekananda: Vedanta Press & Bookshop.
5. Rajgopalachari, C. : Ramayan, Bhartiya Vidya Bhawan.

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UNIT-I

Introduction of Business Environment, Concept Significance and Nature of Business Environment, Changing Dimensions of Business Environment.

UNIT-II

Implications of Globalization, Competition Act, 2002.

UNIT-III

Legal Environment of Business, Changing dimensions of Legal Environment, Intellectual Property Rights.

UNIT-IV

Environment Protection, Government Policy on Environment, Water Pollution Act, Air Pollution Act, Environment Pollution Act.

UNIT-V

Corporate Ethics and Government, Contemporary issues in CSR and Governance, Work Ethics, Sustainable Development.

Books Recommended

1. N. Gopal : Business Environment, Tata McGraw Hill
2. Saleem Shaikh : Environment, Pearson Education of India
3. David : The Environment of Business, SAGE Publication
4. Aswathappa : Essentials of Business Environment, Himalaya Publishing House

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Paper – III : Political Ideologies

Section – A

Political Ideology – Meaning, Nature and Scope, Liberalism and Idealism.

Section – B

Socialism, Syndicalism, Guild Socialism, Democratic Socialism and Anarchism

Section – C

Fascism, Gandhism, Radical Humanism, Utilitarianism, Environmentalism and Feminism

Books recommended :-

E. Bernstein : Today's Ism

Coker : Recent Political Thought

K.N. Verma : Rajnitik Vichardharayen.

P.K. Chaddha : Rajnitik Vichardharayen.

खण्ड 'ख'

भारत की विदेश नीति: निर्धारक तत्त्व, भारत एवं संयुक्त राष्ट्र, गुट निरपेक्ष आंदोलन एवं वर्तमान में प्रासंगिकता, पूर्व की और देखो नीति, भारत के पड़ोसी देश एवं प्रमुख शक्तियों (अमेरिका, रूस, चीन) के साथ सम्बन्ध, समसामयिक बहुध्रुवीय विश्व में भारत।

खण्ड 'ग'

अन्तर्राष्ट्रीय राजनीति में सम-सामयिक प्रवृत्तियाँ व मुद्दे, पश्चिमी एशिया की राजनीति, नवीन विश्व अर्थव्यवस्था, क्षेत्रीय सहयोग संगठन: आसियान (दक्षिण-पूर्वी एशियाई राष्ट्र संगठन) एवं सार्क (दक्षिण एशियाई क्षेत्रीय सहयोग संगठन) ब्रिक्स, इबसा, संयुक्त राष्ट्र में सुधार की मांग एवं संयुक्त राष्ट्र में भारत की स्थायी सदस्यता, समसामयिक वैश्विक मुद्दे: मानव अधिकार, पर्यावरणीय मुद्दे, लैंगिक न्याय, आंतकवाद, परमाणु प्रसार।

अनुशंसित पुस्तके :

ब्लेक एण्ड थॉमसन : फारेन पॉलिसी

जॉर्डन कॉनेल स्मिथ : पेन्टर्स परसेप्शन ऑव दी डवलपिंग सिंस 1982।

डैनियन एस.पप : सोवियत परसेप्शन ऑव दी डवलपिंग वर्ल्ड इन 1980।

डॉ मथुरालाल शर्मा : अन्तर्राष्ट्रीय सम्बन्ध 1945 से अब तक।

महेन्द्र कुमार : अन्तर्राष्ट्रीय राजनीति के सैद्धांतिक पक्ष (हिन्दी व अंग्रेजी)

पी.के.चड्ढा : अन्तर्राष्ट्रीय सम्बन्ध (आदर्श प्रकाशन, चौडा रास्ता जयपुर)

बाबूलाल फाडिया : अन्तर्राष्ट्रीय सम्बन्ध

पुखराज जैन : अन्तर्राष्ट्रीय सम्बन्ध

दीनानाथ वर्मा : अन्तर्राष्ट्रीय सम्बन्ध

एस.एम. धर : इंटरनेशनल पॉलिटिक्स सिंस 1949

हरिदत्त वेदालंकार : इंटरनेशनल पॉलिटिक्स

Paper II : International Relations since World War -II and Indian Foreign Policy

Section-A

Post War International Development: Cold War & its different Phases, U.N.O : Organization, Working and role, U.S.A and Third World, Collapse of Communist Block, Reorganisation of Europe.

Section-B

Indian Foreign Policy : Determinants of Foreign Policy, India and UN, NAM and its relevance in Contemporary World, India's Look East Policy, India's relations with neighbourhood & with major powers (U.S.A., Russia and China), India in Contemporary multi-polar world.

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Unit: B

1. Theories of inference in Buddhism: definition- constituents and types of anumana, Vyapti & types of Vyapti
2. Theories of inference in Jainism: definition- constituents and types of anumana, Vyapti.

Suggested Readings :

Annambhatta	:	<i>Tarkasangraha</i>
Dharmakirti	:	<i>Nyayabindu.</i>
Yasovijaya	:	<i>Jaina Tarka Bhasa.</i>
S.S. Barlingay	:	<i>A Modern Introduction to Indian Logic.</i>
B.K. Matilal	:	<i>Logic, Language and Reality.</i>
S.K. Maitra	:	<i>Fundamental Questions of Indian Metaphysics & Logic.</i>
F.Th. Stchebatsky	:	<i>Buddhist Logic, Vols. I & II.</i>
C. Bhattacharyya	:	<i>Elements of Indian Logic & Epistemology.</i>
S. Chatterjee	:	<i>Nyaya Theory of Knowledge.</i>
R. Prasad	:	<i>Buddhist Logic.</i>
K.N. Tiwari	:	<i>Bhartiya Tarkshastra, MLBD, New Delhi</i>

Paper V: Socio- Political Philosophy**Section-A**

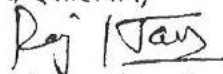
1. Nature of Socio- political Philosophy
2. Social and Political Ideals : Equality, Justice, Liberty.
3. Democracy : Conceptual forms, Major theories and challenges
4. Political Ideologies : Fascism, Capitalism, Marxism and Socialism

Section-B

5. Humanism ; Secularism ; Multiculturalism.
6. Scientific Temper and Development.
7. Feminism : Major streams, Woman Empowerment
8. Caste Discrimination: Gandhi and Ambedkar

Suggested Readings :

R.N. Kaul	:	A Hand book of Social Philosophy
O.P. Gauba	:	Social and Political Philosophy (Pub. Mayur Paperbacks)
O.P. Gauba	:	An Introduction Social Political Philosophy
हृदय नारायण मिश्र	:	समाज दर्शन सैद्धांतिक एवं समस्यात्मक विवेचन
शिवभानु सिंह	:	समाज दर्शन का सर्वेक्षण
के.के. पाठक	:	समाज एवं राजनीतिक दर्शन (राजस्थान हिन्दी ग्रंथ अकादमी, जयपुर)
डॉ. बी एन. सिंह	:	समाज दर्शन एवं राजनीतिक दर्शन (आशा प्रकाशन, इलाहाबाद)
तथा प्रो. उदय शंकर	:	


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Paper I: Sociological Thought

Max Marks: 100

Unit I: Classical Sociological Tradition

- Karl Marx: Dialectical Materialism, Class struggle
- Emile Durkheim: Mechanical and Organic Solidarity, Social Fact
- Max Weber: Social Action, Types of Authority

Unit II: Contemporary Sociological Tradition

- Jurgen Habermas: Legitimation Crisis, Communicative Action
- Antonio Gramsci: Hegemony, Civil Society
- Anthony Giddens: Modernity, Structuration

Unit III: Indian Sociological Tradition

- M.N. Srinivas: Sanskritization, Dominant Caste
- D.P Mukherji: Diversity, Dialectics of Tradition
- A.R Desai: Nationalism, Path of Development

Essential Readings: (in English) :

1. Doshi, S.L. 2003: Modernity, Post Modernity and Neo-Sociological Thought, Jaipur: Rawat Publication.
2. Coser, Lewis A., 2008: Masters of Sociological Thought, Jaipur: Rawat Publication.
3. Nagla, B. K. 2013: Indian Sociological Thought, Jaipur: Rawat Publication.
4. Raymond Aron, 1967: Main Currents in Sociological Thought, (Vol. I & II), London: Penguin Books.

Essential Readings: (in Hindi)

1. दोषी, एस. एल., 2003: आधुनिकता अंतर-आधुनिकता एवं नव-समाजशास्त्रीय सिद्धान्त, जयपुर: रावत पब्लिकेशन्स
2. हुसैन, मुजतबा, 2010: समाजशास्त्रीय विचार, नई दिल्ली: ओरियंट ब्लैकस्वॉन
3. दोषी, एस. एल., 2007, आधुनिक समाजशास्त्रीय विचारक, जयपुर: रावत पब्लिकेशन्स
4. मुकर्जी, रवीन्द्रनाथ, 2003, सामाजिक विचारधारा, दिल्ली: विवेक प्रकाशन

Paper II: Introducing Sub Sociologies

Max Marks: 100

Unit I: Sociology of Urban Society

- Concepts: City and its Types, Urbanization, Urbanism, Migration
- Urban Sociology: Nature, Subject Matter, Significance
- Issues: Slums, Health and Sanitation

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Punter, David. "The French Revolution". *The Literary Encyclopedia*. 17 July 2001

Thomas, E. P. *The Romantics*. New York: New Press, 1997.

Ward & Trent, et al. *The Cambridge History of English and American Literature: The Period of the French Revolution*. New York: G.P. Putnam's Sons, 1907-21; New York: Bartleby.com, 2000.

Woods, Alan. *British Poets and the French Revolution*. London. 2003. Accessed May, 2010

ENG Elective – 2 ECC - Women's Writing I

Duration: 3 hrs.

Max. Marks: 100

Candidates will be required to answer five questions in all.

1. Introduction – Bhakti Movement
Devotional songs of Meera Bai: In Praise of Lord 1& 2,3 ,4 ,5 (A.J Alston, Delhi: Moti Lal Das Publishers)
2. Cornelia Sorabje : *Stray Thoughts of an Indian Girl*
- 3M.K, Vinodini : *The Desert Flower*, (ed.E.V. Ramakrishnan
Indian Short Stories 1900- 2000)
4. Kamla Das : *My Grandmother's House, Krishna, Summer in Calcutta, An Introduction, Words.*
5. Anita Desai : *The Artist of Disappearance*
6. Mahasweta Devi : *1084 ki Maa*
7. Bama : *Kurukku*

Recommended Reading:

Women Writing in India from 600 B.C to the Present, Vol. I, II
ed. Susie Tharu and K. Lalita, Delhi: Oxford University Press 1995

Dalit Personal Narratives. R. Kumar – Orient Blackswan, New Delhi, 2011

E.V. Ramakrishnan – *Indian Short Stories*

ENG Elective - 3 ECC – American Literature I

Duration: 3 hrs.

Max. Marks: 100

Candidates will be required to answer five questions in all:

Question No. 1 is compulsory (four passages for explanation with reference to the context from 4, 6 and 7) and four other questions.

1. American Renaissance and Transcendentalism

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ENG 1 ECC (Elective Course Category)**Nineteenth Century Literature II****Duration: 3 hrs.****Max. Marks: 100****Candidates will be required to answer five questions in all.**

1. Oxford movement and Industrial Revolution
2. Jane Austen : *Northanger Abbey*
3. The following essays from *Essays of Elia* (ed. Hailward and Hill, Macmillan)
Charles Lamb: Dream Children, In Praise of Chimney Sweepers
The following essays from *Table Talk* (ed. C.M. Macken, Everyman)
William Hazlitt: On Familiar Style, On Going a Journey
4. Charles Dickens: *Oliver Twist*
5. Emily Bronte: *Wuthering Heights*
6. Thomas Hardy: *Far From The Madding Crowd*
7. Robert Browning: *Pippa Passes, Pied Piper of Hamelin, Andrea del Sarto.*
(ii). Tennyson: *Ulysses, The Lotus Eaters, The Lady of Shalott*

Recommended Reading :

G. D. H. Cole, *Short History of the British Working Class Movement, 1787-1947*. London, George Allen & Unwin (1948), pp. 63-69. "The Reform Movement"

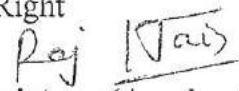
Boris Ford: Part 1 and 2 of Volumes VI of *New Pelican Guide to English Literature* (ed.)

Vivian de Solavinto: *Background to Victorian Poetry.*

Paper ENG 2ECC- Women's Writing II**Duration: 3 hrs.****Max. Marks: 100**

Candidates will be required to answer five questions in all: Question No. 1 is compulsory (four passages for explanation with reference to the context from the texts 3, 4 and 5) and four other questions.

1. J.S. Mill: *The Subjection of Women* (I Chapter)
2. George Eliot : *Mill on the Floss*
3. Elizabeth B. Browning: *Aurora Leigh*, Book II
4. Imtiaz Dharker: Choice; Purdah; I and II; Prayer; The Right Word (from *The Terrorist at my Table*)


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Shuter, William F (1997), *Rereading Walter Pater*, Cambridge Studies in Nineteenth-Century Literature and Culture, Cambridge

Thomas, Edward (1913), *Walter Pater: A Critical Study*, London: Martin Secker

Ward, Anthony (1966), *Walter Pater: The Idea in Nature*, London.

Morris, W. (2003). *News From Nowhere*. Leopold, D (Ed.). New York, Oxford University Press Inc., New York.

John Stuart Mill, *The Subjection of Women*, The Feminism and Women's Studies

Swinburne, A.C.: *Songs before Sunrise* (1871)

ENG Elective 2ECC - Women's Writing III

Duration: 3 hrs.

Max. Marks: 100

Candidates will be required to answer five questions in all.

1. Margaret Fuller : *From Women in the 19th Century* (Introduction)
2. Rassundari Devi – *Amar Jiban* (1876)
3. Swarnakumari Devi : *An Unfinished Song*
4. E. Gaskell: *Mary Barton*
5. Simon de Beauvoir: Introduction of *The Second Sex* ed. and tr. by H.M. Parshilay, New York: Alfred A. Knopf, 1953
6. Virginia Woolf: *A Room of One's Own*
7. Maya Angelou: *I Know Why the Caged Bird Sings*

ENG Elective 3ECC – American Literature III

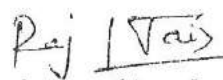
Duration: 3 hrs.

Max. Marks: 100

Candidates will be required to answer five questions in all:

Question No. 1 is compulsory (four passages for explanation with reference to the context from the texts 2,3,4 and 5) and four other questions.

1. American Renaissance and Transcendentalism
From *American Literature of Nineteenth and Twentieth Century*, ed. W.J. Fisher et. al (Eurasia):
2. R.W. Emerson: The Snow Storm, The Problem
(From *American Literature of the Ninetieth Century* Fisher Samuelson Reninger, Eurasia Publishing Delhi).
3. Walt Whitman: (i) Preface to the Leaves of Grass


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Question No. 1 is compulsory (four passages for explanation with Reference to the Context from the texts 3, 4, 5, and 7) and four other questions.

1. The Aesthetic Movement
2. Oscar Wilde: *The Picture of Dorian Gray*
3. Robert Burns: A Sonnet upon Sonnets, A Red, Red Rose, A Man's A Man For A' That, Highland Mary
4. Arthur Symons: April Midnight, At the Three Fountains Dreams, To a Grey Dress, White Heliotrope
5. Aubrey Beardsley (1872) : The Three Musicians , The Ivory Piece, The Courts Of Love , Lines Written In Uncertainty ,
- 6 R.L. Stevenson : *Treasure Island*
7. Ernest Christopher Dowson Days of Wine and Roses, Non Sum Qualis Lram (Gone With the Wind) (From *Decoration in Verse and Prose*, 1899)

Recommended Reading:

The Oxford Companion to English Literature (2010)

Paper ENG 2ECC – (Elective Course Category)

Women's Writing IV

Duration: 3 hrs.

Max. Marks: 100

Candidates will be required to answer five questions in all:

Question No. 1 is compulsory (four passages for explanation with reference to the context from the texts 1, 2, 3, and 4) and four other questions.


1. Annette Kolodny: "Dancing Through the Minefield : Some Observations on the Theory, Method and Politics in Feminist Literary Criticism"
2. Wendy Lill : *The Occupation of Heather Rose*
3. Alice Walker: 'In Search of Our Mother's Garden' (Essay)
4. Sylvia Plath: 'Lady Lazarus'
5. Shashi Deshpandey: 'Why I am a Feminist?'
6. Gayatri Spivak: 'Can the Subaltern Speak?'
7. Bama – *Sangati Events*

Recommended Readings:

Elaine Showalter: *A Literature of Their Own*

Elaine Showalter: Ed.: *The New Feminist Criticism*

Juliet Mitchell: *Psychoanalysis and Feminism*


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Course ECC D-05 Gender and Law in India

Course Content

The Constitution of India and Gender Equality, The question of Citizenship
Women and Family Laws, Divorce Laws, Maintenance Laws, Inheritance and
Guardianship, Special Marriage Act, 1964, Foreign Marriage Act, 1969
Dowry Prohibition Act, 1961, PCPNDT Act, 1994
Sexual Harassment of Women at Work Place (Prevention, Prohibition and
Redressal) Act, 2013
Violence against Women : Protection of Women from Domestic Violence Act,
2005.

Pg 1/Tab
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M. A. HISTORY SEMESTER I

HIS A03 : WOMEN IN INDIAN SOCIETY: ANCIENT AND MEDIEVAL INDIA

Course Category: ECC 3 hrs. duration 100 marks Credits: 6

Section I

Understanding gender; Gender and historical analysis; its contribution towards understanding social relations in ancient India.

Gender and the prehistoric world: technological development, social settings, cultural, religious and ideological development.

Historiographical approaches to women's history in ancient and medieval India - Colonial, Nationalist, Marxist, Feminist

Section II

Women in the Vedic Period.

Women in different Religious Traditions; viz, Brahmannical, Buddhist, Jain.

Women in the Public Sphere in ancient India - Rulers, Patrons, livelihood earners, prostitutes and courtesans

Representation of women in *Arthashastra* and *Manusmriti*.

Section III

Notion of masculinity and political power - Raziya Sultan, Rudramma Devi, Chand Bibi. Negotiating Political Space - Maham Anaga, Nur Jahan, Zebunissa. Women in economic activities - Royal women, Artisans, , Courtesans. Voices of Dissent - Akka Mahadevi, Meera , Bahina Bai.

Recovering woman's voice in Gulbadan Bano's Memoirs.

Recommended Readings:

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PAPER IV, V & VI
(Any three of the following)

HIS B01: WOMEN IN INDIAN SOCIETY : MODERN INDIA

Course Category: ECC 3 hrs. Duration 100 Marks Credits: 6

Section I

Colonial Period:

Colonial critique of women's status in India. Social Reform Movement and the women's question - Young Bengal Movement, Jyotiba Phule, Raja Ram Mohan Roy, Dayanand Saraswati, G. G. Agarkar, Ramabai. Women's Access to Education - Debates on Women's education in the nineteenth and twentieth centuries. Social Legislation - Sati Prohibition Act, Widow Remarriage Act, Age of Consent Act.

Section II

New Trends in the Colonial and Post Colonial Period:

Formation of Women's Organizations: Struggle for women's suffrage. Women in the freedom struggle - Pre-Gandhian; Gandhian; Revolutionary. Partition and Women. Important constitutional provisions and constitutional amendments related to women.

Section III

Post Colonial Strategies and Challenges:

Women and work: organized and unorganized sectors. Participation of women in the Politics in the post-independence period: Women's Movement - significant trends. Violence against Women- Domestic Violence; Sexual Harassment at workplace; Rape and Sexual Violence; mechanisms and laws to combat violence. Challenges of Globalization.

Recommended Readings:

J. Krishnamurthy : *Women in Colonial India*
 B.R. Nanda (ed.) : *Indian Women from Purdah to Modernity*
 Janaki Nair : *Women and Law in Colonial India: A Social History*
 Neera Desai & Maithreyi Krishnaraj : *Women and Society in India.*
 Veena Das : *Indian Women: Work, Power and Status.*

Kiran Pawar (ed.) : *Women in Indian History: Social, Economic, Political and Cultural Perspectives*
 Jana Matson Everett : *Women and Social Change in India*

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3. ENVIRONMENTAL STUDIES

B.A. Part-I 2021

Scheme of examination

Time	Min Marks	Max.Marks
3 hrs	36	100

This paper will contain 100 multiple choice questions. Each question will carry 1 mark. Students should be encouraged to visit places of Environmental Importance including Natural and Manmade Habitat.

Note:

1. The marks secured in this paper shall not be counted in awarding the division to a candidate.
2. The candidates will have to clear this compulsory paper in three chances.
3. Non-appearing or absence in the examination of compulsory paper will be counted as a chance.

Unit.1: The Multidisciplinary nature of environmental studies

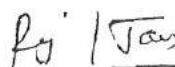
Definition, scope and importance- Relationship between Environmental Studies and other branches of science and social sciences.

Need for Environmental awareness, Environmental education in present day context.

Unit.2: Natural Resources and Challenges

- a. Natural resources and associated problems, Classification of resources: renewable resources, non renewable resources, classes of earth resources, resources regions: Definition and criteria, resource conservation.
- b. Forest resources: Use and over- exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forest and tribal people.
- c. Water resources: Use and over-utilization of surface and groundwater, floods, drought conflicts over water, dams-benefits and problems.
- d. Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
- e. Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticides problems, water logging, salinity, case studies.
- f. Energy resources: Growing energy need, renewable and nonrenewable energy sources, use of alternate energy sources. Case studies.
- g. Land resources: Land as a resource, Land degradation man induced Landslides, soil erosion and desertification.

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- Role of an individual in conservation of natural resources.
- Equitable use of resources for sustainable lifestyles.

Unit 3: Ecosystems, Concepts, Structure, Functions and Types

- Concept of an ecosystem
- Structure and function of an ecosystem
- Producers, consumers and decomposers
- Energy flow in the ecosystem
- Ecological succession
- Food chains, food webs and ecological pyramids
- Introduction, types characteristics features, structure and function of the following ecosystem:
 - a. Forest ecosystem, Tropical Temperate and Alpine Ecosystem
 - b. Grassland ecosystem and Their Types
 - c. Desert ecosystem with emphasis on Thar Desert
 - d. Aquatic ecosystems(ponds, streams, lakes, rivers, oceans, estuaries) and Wet Lands

Unit 4: Biodiversity and its conservation

- Introduction –Definition, genetic, species and ecosystem diversity
- Biogeographically classification of India
- Value of biodiversity :consumptive use, productive use, social ethical., aesthetic and option values
- Biodiversity at global, National and local level
- India as a mega-diversity nation
- Hot-spot of biodiversity
- Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts
- Endangered, Threatened and endemic species of India
- Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity
- Red Data Book

Unit 5 : Environmental Pollution and Control Measures

Definition

- Causes, effects and control measures of:
 - a) Air Pollution
 - b) Water Pollution
 - c) Soil Pollution
 - d) Marine Pollution

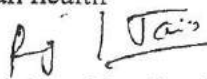
- e) Noise Pollution
- f) Thermal Pollution
- g) Nuclear Hazards
- Solid waste management” Causes, effects and control measures of urban and industrial wastes
- Role of an individual in prevention of pollution
- Pollution case studies
- Disaster management: floods earthquake, cyclone and landslides

Unit 6 : Social issues, Environment, Laws and Sustainability

- From Unsustainable to Sustainable development
- Urban problems related to energy
- Water conservation, rain water harvesting, watershed management
- Resettlement and rehabilitation of people; its problems and concerns. Case studies
- Environmental ethics: Issues and possible solution.
- Climate change, global warming, acid rain ozone layer depletion, nuclear accidents and holocaust. Case studies
- Wasteland reclamation.
- Consumerism and waste product.
- Environmental Protection Act.
- Air (Prevention and Control of Pollution) Act
- Wild life protection Act
- Forest Conservation Act
- Biological Diversity Act
- Issues involved in enforcement of environmental legislation
- Public Awareness.

Unit 7: Human Population and the Environment

- Population growth, variation among nations
- Population explosion-Family Welfare Programme
- Environment and Human health
- Human Rights
- Value Education
- HIV/AIDS
- Women and Child Welfare
- Role of Information Technology in Environment and human health
- Case Studies


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Suggested Readings:-

1. Diwan A.P. and Arora D.K.1995. Human Ecology Anmol Publication Pvt.Ltd.,New Delhi.
2. Dubey, R.M.1992. Human Ecology and Environmental Education,Chaug Publications,Allahabad.
3. Goudie,Andrew.The Human Impact.
4. Husain Maxia.1994 Human Geography,Rawat Publication,Jaipur.
5. Johnston, R.J.Ed.1986 Dictionary of Human geography,National Publication,New Delhi.
6. Malik,S.L.and Bhattacharya D.K.1986. Aspects of Human Ecology,Northern Book Center,New Delhi.
7. Mishra,R.P and Bhooshan,B.S.1979.Human Settlements in Asia.Public,Polices and programmes Haritage publisher,New Delhi.
8. Nathawat, G.S.1985. Human Ecology,An Indian perspective,Indian Human Ecology Council,Jaipur.
9. Russel, Bartrand, 1976.Impact of Science of society Unwin,Publisher,Indian. (paper back).
10. Sinha Rajiv, 1996.Gloobal Biodiversity Ina.,Shri publication,Jaipur.
11. Sinha Rajiv K., 1994. Development without Deserttrction 14.Environmentalist,Jaipur. Sinha Rajiv K., 1996.Environmental Crises and Human at Risk,In A Shri Publication,Jaipur.
12. Smith, Dlanne, 1984.Urban Ecology,George Allen,London.
13. Swarnkar, R.C.1985.Indian Tribes.Printwell publisher,Jaipur.
14. Tivy,Joy and O'Hugegreg,1985.Human Impact on the Ecosystem Edinburgh George Allen Boyd.
16. United Nations Development Report, 1996.Human Development Report, 1996.Oxford University Press,Delhi.
17. Vannathony & Rogers Paul, 1974. Human Ecology and World Development,Flehum Press,New York.

Paper I: Physical Geography

Section A

Definition, scope and development of physical geography, geological history of the Earth; zoning of Earth's interior, rocks, origin of continents and oceans; continental drift theory and plate tectonics; concept of isostasy: views of Airy, Pratt, Joly and Holmes. Earth movements: epirogenic and orogenic; mountain building theories: Kober, Jeffreys, Daly, Joly and Holmes and plate tectonics; denudation, cycle of erosion: views of W.M. Davis and W. Penck, erosional and depositional topographies: river, under groundwater, glacier, wind and oceanic waves.

Section B

Composition and structure of the atmosphere, insolation, air temperature, air pressure, pressure belts and planetary winds, monsoon and local winds, humidity, classification of clouds and precipitation, air masses, fronts and cyclones. tropical and temperate, classification of the world climates: Koppen and Thornthwaite, general climatic classification.

Section C

Surface configuration of oceans bottom: Pacific, Atlantic and Indian oceans, ocean deposits, horizontal and vertical temperature of oceans, oceanic salinity, tides, oceanic waves and currents, coral reefs and their origin: views of Darwin and Dana, W.M. Davis, Murray, classification of marine resources, biosphere and its components, ecosystems, plant community and animal kingdom, biomes: equatorial rainforest, monsoon, savanna and temperate grasslands.

Recommended Readings:

1. मोहन, वी.एस. व गोताप, ए. 2005, भौतिक भूगोल (जीवमण्डल सहित)। रस्तोगी पब्लिकेशन्स देहली।

2. चाल, पी. 2012, भौतिक भूगोल। राजेश पब्लिकेशन्स नई दिल्ली।

3. गोताप, अजय 2012 : भौतिक भूगोल। रस्तोगी पब्लिकेशन्स, देहली।

4. Hussain, M. 2001, Fundamentals of Physical Geography, Rawat Publication, Jaipur

5. Goss, D. 2012: Physical Geography : A Landscape Appreciation, PHI Learning Private limited, New Delhi, Mcknight's Text Edition.

6. Kullar, D.R. 2012: Physical Geography, Kalyani Publishers, New Delhi

7. ड. सविन्द 2005 : भू-आकृति विज्ञान। तारा पब्लिकेशन्स वाराणसी।

8. ड. सविन्द, 2011 भौतिक भूगोल का स्वरूप। प्रथम प्रकाशक वर्ष। इलाहाबाद।

9. एम.एस. शर्मा एम.एस. एन. एन. एन. एन. एन. भौतिक भूगोल। पारसी प्रकाशन जयपुर।

10. Arma, R.C. and Vaid M. 1999 Oceanography for Geographers, Chaitanya Publishing use, Allahabad

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Paper – III : Political Ideologies**Section – A**

Political Ideology – Meaning, Nature and Scope, Liberalism and Idealism.

Section – B

Socialism, Syndicalism, Guild Socialism, Democratic Socialism and Anarchism

Section – C

Fascism, Gandhism, Radical Humanism, Utilitarianism, Environmentalism and Feminism

Books recommended :-

E. Bernstein : Today's Ism

Coker : Recent Political Thought

K.N. Verma : Rajnitik Vichardharayen.

P.K. Chaddha : Rajnitik Vichardharayen.

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खण्ड - ख

समसामयिक वैश्विक समस्याएँ

वैश्विक असमानताएँ, हिंसा, संघर्ष, युद्ध, आतंकवाद, आतंक के विरुद्ध युद्ध, वैश्विक निर्धनता, विकास एवं मानव सुरक्षा।

खण्ड - ग

समसामयिक वैश्विक मुद्दे

पारिस्थितिकीय मुद्दे, पर्यावरणीय समझौते, जलवायु परिवर्तन, सतत विकास, परमाणु हथियारों का प्रसार, जन संहार हथियार (WMD), वैश्विक नागरिक समाज।

अनुशंसित पुस्तकें :

पुष्पेश पंत : देश और दुनिया इक्कीसवीं सदी में विदेश नीति, नई दिल्ली।

पुष्पेश पंत : अंतर्राष्ट्रीय संबंध, मेरठ, मिनाक्षी, 1983

पुष्पेश पंत : भारत की विदेश नीति, मैकमिलन, 1975

तपन बिसवाल : अंतर्राष्ट्रीय संबंध, 2009

हरीश कुमार वैश्य : अंतर्राष्ट्रीय संबंध, 2010

जगत एस.मेहता : भारत की विदेश नीति, कल आज और कल, 2008

सुनीता नारायण : पर्यावरण की राजनीति, 2010

पी.वी.राजीव : वैश्वीकरण के युग में भारत, राधा पब्लिकेशन, 2010

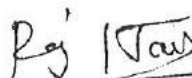
Or

Paper XI (B) – Global Politics**Section A****(A) Globalization: Concepts and Perspectives**

Political, cultural and technological dimensions: evolution of the State system and Sovereignty, The Global Economy: Bretton Woods institutions and World Trade Organization (WTO), transnational economic actors; Multinational Corporations (MNCs).

Section B**(B) Contemporary Global Problems**

Global Inequalities, Violence, Conflict, War, Terrorism and War on Terror, Global Poverty, Development and Human Security.


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Paper I: Sociological Thought

Max Marks: 100

Unit I: Classical Sociological Tradition

- Karl Marx: Dialectical Materialism, Class struggle
- Emile Durkheim: Mechanical and Organic Solidarity, Social Fact
- Max Weber: Social Action, Types of Authority

Unit II: Contemporary Sociological Tradition

- Jurgen Habermas: Legitimation Crisis, Communicative Action
- Antonio Gramsci: Hegemony, Civil Society
- Anthony Giddens: Modernity, Structuration

Unit III: Indian Sociological Tradition

- M.N. Srinivas: Sanskritization, Dominant Caste
- D.P Mukherji: Diversity, Dialectics of Tradition
- A.R Desai: Nationalism, Path of Development

Essential Readings: (in English) :

1. Doshi, S.L. 2003: Modernity, Post Modernity and Neo-Sociological Thought, Jaipur: Rawat Publication.
2. Coser, Lewis A., 2008: Masters of Sociological Thought, Jaipur: Rawat Publication.
3. Nagla, B. K. 2013: Indian Sociological Thought, Jaipur: Rawat Publication.
4. Raymond Aron, 1967: Main Currents in Sociological Thought, (Vol. I & II), London: Penguin Books.

Essential Readings: (in Hindi)

1. दोषी, एस. एल., 2003: आधुनिकता अंतर-आधुनिकता एवं नव-समाजशास्त्रीय सिद्धान्त, जयपुर: रावत पब्लिकेशन्स
2. हुसैन, मुजतबा, 2010: समाजशास्त्रीय विचार, नई दिल्ली: ओरियंट ब्लैकस्वॉन
3. दोषी, एस. एल., 2007, आधुनिक समाजशास्त्रीय विचारक, जयपुर: रावत पब्लिकेशन्स
4. मुकर्जी, रवीन्द्रनाथ, 2003, सामाजिक विचारधारा, दिल्ली: विवेक प्रकाशन

Paper II: Introducing Sub Sociologies

Max Marks: 100

Unit I: Sociology of Urban Society

- Concepts: City and its Types, Urbanization, Urbanism, Migration
- Urban Sociology: Nature, Subject Matter, Significance
- Issues: Slums, Health and Sanitation

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Paper – XI: Development Economics

Duration: 3 hrs

Max. Marks: 100

(25)

Section – A

Economic Development and Economic Growth, Structural Changes, Kuznets Theory. Characteristics of developing countries. Natural Resources, Manpower, Capital, Technology, Institutions and State. Impediments development and their inter-connections Human Development.

Section – B

Modern approaches to the theories of Development and Growth: Nurkse, Rodan Lewis, Hirschman, Liebenstein, Harrod –Domar, Solow. Investment Criteria, Cost Benefit analysis, Internal Rate of Return and Net Present Value. Problems of open Economy and Globalization.

Section – C

Planning for Economic Growth, Resource Mobilization, Capital –Output Ratio. Indian Planning: Objective, Strategy for development. Public Investment and Financing under Plans. Relevance of planning in India, Evolution of NITI Aayog, National Development Agenda.

Books Recommended :

1. Meier, Gerald M. And James E. Rauch (2006): Leading Issues in Economic Development, Eight Edition, Oxford University Press, New York.
2. Ray, Debraj (2004): Development Economics, Seventh Impression, Oxford University Press, New Delhi.
3. Thirlwall, A.P. (2006): Growth and Development, Eighth Edition, Palgrave Macmillan, New York.
4. Todaro, Micheal P. And Stephen Smith C. (2007): Economic Development, Eighth Edition, Second Impression, Pearson Education, (Singapore) PVT. Ltd. Indian Branch, Delhi.
5. Mishra and Puri: Economic of Development and Planning, Himalaya Publishing House.

Paper – XII (a): Environmental Economics**Section – A**

Environmental Economics: An Introduction; Review of Microeconomics and Welfare Economics; The Theory of Externalities; Pareto Optimality and Market Failure in the Presence of Externalities; Property Rights and the Coase Theorem: Sustainable Development: Concepts and Measurement.

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Paper – XI: Development Economics

Duration: 3 hrs

Max. Marks: 100

Section – A

Economic Development and Economic Growth, Structural Changes, Kuznets Theory. Characteristics of developing countries. Natural Resources, Manpower, Capital, Technology, Institutions and State. Impediments development and their inter-connections Human Development.

Section – B

Modern approaches to the theories of Development and Growth: Nurkse, Rodan Lewis, Hirschman, Liebenstein, Harrod –Domar, Solow. Investment Criteria, Cost Benefit analysis, Internal Rate of Return and Net Present Value. Problems of open Economy and Globalization.

Section – C

Planning for Economic Growth, Resource Mobilization, Capital –Output Ratio. Indian Planning: Objective, Strategy for development. Public Investment and Financing under Plans. Relevance of planning in India, Evolution of NITI Aayog, National Development Agenda.

Books Recommended :

1. Meier, Gerald M. And James E. Rauch (2006): Leading Issues in Economic Development, Eight Edition, Oxford University Press, New York.
2. Ray, Debraj (2004): Development Economics, Seventh Impression, Oxford University Press, New Delhi.
3. Thirlwall, A.P. (2006): Growth and Development, Eighth Edition, Palgrave Macmillan, New York.
4. Todaro, Micheal P. And Stephen Smith C. (2007): Economic Development, Eighth Edition, Second Impression, Pearson Education, (Singapore) PVT. Ltd. Indian Branch, Delhi.
5. Mishra and Puri: Economic of Development and Planning, Himalaya Publishing House.

Paper – XII (a): Environmental Economics**Section – A**

Environmental Economics: An Introduction; Review of Microeconomics and Welfare Economics; The Theory of Externalities; Pareto Optimality and Market Failure in the Presence of Externalities; Property Rights and the Coase Theorem: Sustainable Development: Concepts and Measurement.

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BT - 503: ENVIRONMENTAL BIOTECHNOLOGY

Section -A

- 1. Components of Environment - Hydrosphere, lithosphere, atmosphere
- 2. Energy transfer in an Ecosystem, Food chain, food web, Bio-geochemical cycles (N, C, and P cycles).
- 3 Environmental pollution and degradation - Pollution of air, water , land and noise with reference to their causes, nature of pollutions, impact and control strategies.
- 4 Global Environmental Problems - Greenhouse Effects, Acid rain, El Nino, Ozone depletion, Deforestation,, salinization, biodiversity loss; chemical and radiation hazards.

Section -B

- 5. Waste water: communal, sewage and industrial effluents: type of wastes, properties and step involved in aerobic and anaerobic treatments
- 6. Principle and design aspects of various waste treatment methods, with advance bioreactor configuration: activated sludge process, trickling filter, fluidized expanded reactor, up flow anaerobic sludge blanket reactor, contract process, fixed/packed reactor, hybrid reactors, sequential batch reactors.

Section -C

- 7. Kinetic models for biological waste treatment: Bioconversions of agricultural and of highly organic waste material into gainfully utilizable product, Biogas, H₂, cellular and food and feed stocks.
- 8. Process strategies for Bioremediation through microbes and plant. Bioremediation by industries, impact for process in global Bioremediation industry, exploiting microbial metabolism Bioremediation of organic contaminants, heavy metals and nitrogenous wastes.

Section -D

- 9. Environmental monitoring (Bio indications, Biomarkers, Biosensors) Environmental Protection Act
- 10. Waste disposal and management, legislation of environmental problems, microbiological and biochemical aspects of waste water treatment processes, microbial strain improvement with view to develop scavengers, bioremediation. Environmental laws, national movements on sustainable developments, environmental policies and conservation, IUCN role in environmental protection

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Paper-II

Ecology & Economic Botany

(2 hrs/week)

Unit-1

Plants and Environment: Atmosphere (four distinct zone viz, stratosphere, troposphere, mesosphere and thermosphere) Adaptation (Morphological, anatomical and physiological responses) of plants to water (Hydrophytes and Xerophytes). Light (global radiation, photosynthetically active radiation. Zonation in water body: littoral, limnetic and profundal zones; photoperiodism, heliophytes and sciophytes) Temperature (Raunkier's classification of plants megatherm, mesotherm, microtherm, hekistotherm; the moperiodicity and vernalisation). Soil (soil profile, development-weathering and maturation) Soil texture, soil types, role of pH, organic matter, soil water, soil nutrients. Interactions among organisms (neutralism, amensalism, allelopathy) competition, predation, parasitism, proto-cooperation, mutualism. Environmental protection act

Unit-2

Community, Ecosystem and Phytogeography Community characteristics: stratification, life forms and biological spectrum, frequency density and cover. Ecological succession types (primary and secondary) mechanism nudation, migration, ecesis, reaction and climax: xerosere, hydrosere. Ecosystems: Structure-abiotic and biotic components, trophic level, food chain, food web, ecological pyramids, energy flow (Box and Pipe model of Odum). Biogeochemical cycles of carbon, and phosphorus, Vegetation types of Rajasthan, Endangered plants of Rajasthan.

Unit-3

Basic concept of center of origin of cultivated plants. Food plants-rice, wheat, maize, potato, sugarcane. Vegetables : General account with a note on radish, onion, garlic, cabbage, spinach, cauliflower, cucumber, tomato, lady finger and pea. Fruits: General account with a note on apple, banana, bet mango, mulberry, jamun, watermelon, muskmelon, guava and orange. Vegetable oil groundnut, mustard and coconut.

Unit-4

Spices General account with an emphasis on those cultivated in Rajasthan (*Chenin*, *capsicum*, *Coriander*) Beverages: Tea and coffee. Medicinal plants General accounts with an emphasis on plant species cultivated in Rajasthan

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Section – A

Chordates

1. Comparison of habit, external features and anatomy of *Herdmania* and *Branchiostoma* (excluding development).
2. Ascidian tadpole larva and its metamorphosis.
3. Affinities of Hemichordata, Urochordata and Cephalochordata
4. Habit, habitat and salient features of *Petromyzon*, Ammocoete larva.

Section – B

Structure, organs and Systems: Brain, endoskeleton, Digestive, Circulatory, Respiratory, Excretory, Nervous & Reproductive

Pisces - Labeo

Amphibian-Frog

Reptile-Varanus

Aves-Pigeon

Mammal- Rat

Section – C

Chordate Adaptations

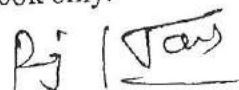
1. Pisces: Scales and fins, migration and parental care.
2. Amphibia: Parental care.
3. Reptilia: Poisonous and non poisonous snakes, poison apparatus.
4. Aves: Flight adaptations, types of feather, bird migration.
5. Mammals: Adaptive radiation, dentition.

PAPER –II: Z-302

ECOLOGY, ENVIRONMENTAL BIOLOGY AND EVOLUTION

NOTE:

1. There will be two parts of this theory question paper with total duration of 3 hours. First part of question paper will comprise question No. 1 containing 9 very short answer (Maximum 25 words) type questions, each of 1 mark. This part is compulsory to attempt. Questions should be evenly distributed covering entire syllabus. Second part of question paper will be of long answer type questions having three sections. There will be total 9 questions (Q. No. 2 to 10) in this part i.e. three from each unit /section, out of which candidate will be required to attempt any 4 question selection at least one question from each unit/section. Each question will carry 6 marks
2. The candidate has to answer all questions in the main answer book only.


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Pal, Adesh and Tapas Chakraborty (eds.) (2004), *Theorizing and Critiquing: The Indian Diaspora*, Creative Books.

Report of the High Commission on the Indian Diaspora, New Delhi: Ministry of External Affairs, December 2001.

Rudrappa, Sharmila (2004), *Ethnic Routes to Becoming American: Indian Immigrants and the Cultures of Citizenship*: Princeton, NJ: Rutgers University Press.

Safran, William, Ajaya Kumar Sahoo and Brij V. Lal (2009), *Transnational Migration: The Indian Diaspora*, New Delhi: Routledge.

Sahoo, Ajay Kumar and Laxmi Narayan Kadekar (eds.) (2012), *Global Indian Diaspora: History, Culture and Identity*, Jaipur: Ravat Publication.

Sandhu, Kernial Singh (1969), *Indians in Malaya: Some Aspects of Their Immigration and Settlement (1786-1957)*: Cambridge University Press.

Tinker, Hugh (1974), *A New System of Slavery: The Export of Indian Labour Overseas (1830-1920)*, London: OUP.

Tinker, Hugh (1977), *The Banyan Tree: Overseas Emigrants from India, Pakistan and Bangladesh*, Oxford: OUP.

HIS B10 : HISTORY OF ECOLOGY AND ENVIRONMENT IN INDIA

Course Category: ECC 3 hrs. duration 100 marks Credits: 6

Section-I

Historiography and Background; Early History. Environmentalism and Environmental History. Forest and Agrarian transitions. Power, identity and ecology. Environment and Social Formations: Pastoral, Agricultural, Forests, Non-Agriculture.

Section-II

Ecological History in Pre-Colonial Period. Animals and politics. 'Scarcity', landscape and development. Environment and Ecology in Indian Ethos and Philosophy. State Formation, Trade and Ecology. Gender and the Environment.

Section-III

British Colonial Intervention as a Watershed in Environmental History - Colonial Interests on Forests - Forest Acts (1865, 1878 and 1927) and Policies. Independent India: Policies Towards Forestry and Environment. Sustainable Development: Contesting development.

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BUA 205: BUSINESS ENVIRONMENT

UNIT-I

Introduction of Business Environment, Concept Significance and Nature of Business Environment, Changing Dimensions of Business Environment.

UNIT-II

Implications of Globalization, Competition Act, 2002.

UNIT - III

Legal Environment of Business, Changing dimensions of Legal Environment, Intellectual Property Rights.

UNIT -IV

Environment Protection, Government Policy on Environment, Water Pollution Act, Air Pollution Act, Environment Pollution Act.

UNIT -V

Corporate Ethics and Government, Contemporary issues in CSR and Governance, Work Ethics, Sustainable Development.

Books Recommended

- 1. N. Gopal : Business Environment, Tata McGraw Hill
- 2. Saleem Shaikh: Environment, Pearson Education of India
- 3. David : The Environment of Business, SAGE Publication
- 4. Aswathappa : Essentials of Business Environment, Himalaya Publishing House

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S.K.Nandi, L.M.S Palni and A.Kumar. 2002. Role of Plant Tissue culture in Biodiversity conservation and economic development. GyanodayaPrakashan ,Naintal, India.

Suggested Laboratory Exercises:

1. Preparation of media for PTC.
2. Surface sterilization technique for preparation of explants.
3. Micro propagation technique
4. Organ culture.
5. Callus propagation, organogenesis, transfer of plants to soil.
6. Anther culture, production of Haploids.
7. Preparation of synthetic seeds
8. Cytological examination of regenerated plants.
9. Isolation of protoplasts from various plant tissues and testing their viability.
10. Single cell culture techniques: Bergmann plating technique, hanging drop & nurse cell culture.
11. Hairy root cultures
12. Elicitation and precursor feeding
13. Extraction of alkaloids and flavanoids from plant material and their separation using TLC.

BOT X03- Plant Ecology

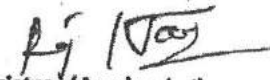
Science of Ecology: Introduction to ecology, evolutionary ecology, ecological models; **Population:** Characteristics of population, population size and exponential growth, limits of population growth, population dynamics, life history pattern, fertility rate and age structure, population growth. Competition and coexistence, intra-specific interactions, interspecific interactions, scramble and contest competition model, mutualism, commensalism and allelopathy, prey-predator interactions.

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Vegetation organization: Concepts of community and continuum, community coefficients, interspecific associations, ordination, species diversity and pattern diversity in community, concept of habitat and ecotone, ecological niche.

Vegetation development: Temporal changes (cyclic and non-cyclic), mechanism of ecological succession (relay floristic and initial floristic composition), succession models (facilitation, tolerance and inhibition models), Changes in ecosystem properties during succession, concept of climax.

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UNIT - I

Introduction, principle and concepts of Green Chemistry
 Need for green chemistry; Inception and evolution of green chemistry; Twelve principles of green chemistry with their explanations and examples; Designing a green synthesis using these principles; Green chemistry in day to day life.

UNIT - II

Non-traditional greener alternative approaches
 Different approaches to green synthesis: (a) Uses of green reagents in organic synthesis - Dimethyl carbonate, polymer supported reagents - per acids and chromic acid; (b) Green catalysts, role of catalysis in sustainable development, homogeneous and heterogeneous catalysts; Introduction, advantages and applications of - (i) Nanocatalysts, (ii) Phase transfer catalysts, (iii) Biocatalysts, (iv) Organocatalysts, in organic synthesis.

UNIT - III

Applications of non-conventional energy sources
 Introduction of microwave induced synthesis: Microwave activation, equipment, time and energy benefits, limitations; Organic transformations under microwaves - Fries rearrangement, Diels-Alder reaction, decarboxylation, saponification of ester, alkylation of reactive methylene compounds; Heterocyclic synthesis - β -Lactams, pyrrole, quinoline.
 Introduction of ultrasound assisted green synthesis: Instrumentation, physical aspects, applications in organic transformations.
 Electrochemical synthesis: Introduction, synthesis of sebacic acid and adiponitrile.

UNIT - IV

Environmentally Benign Solutions to Organic Solvents
 Ionic liquids as green solvents: Introduction, properties and types of ionic liquids. Synthetic applications - Diels-Alder reaction, epoxidation and Heck reaction.
 Aqueous phase reactions: Enhancement of selectivity, efficiency. Synthetic applications - 1,3-Dipolar Cycloadditions, Carbon-Carbon bond-forming processes and bromination reactions.
 Fluorous solvents in green chemistry: Scope, definition and their synthetic applicability.
 Role of supercritical carbon dioxide in green chemistry.
 Ethyl lactate as a renewable green solvent: Properties and applications.

SUGGESTED BOOKS AND REFERENCES:

1. P.A.G. Blackie, Organic synthesis in water, Springer.
2. P.T. Anastas, J.C. Warner, Green Chemistry, theory and practice, Oxford University Press.
3. M. Lancaster, Green Chemistry: An introductory text, Royal Society of Chemistry.
4. V. Polshettiwar, T. Asefa, G. Hutchings, Nanocatalysis: Synthesis and applications, Wiley.
5. M.A. Ryan, M. Tinnésand, Introduction to Green Chemistry, American Chemical Society.
6. P.T. Anastas, Handbook of Green Chemistry, John Wiley and Sons.
7. V.K. Ahluwalia, M. Kidwai, New Trends in Green Chemistry, Springer.


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UNIT-I

Atmospheric Chemistry

Atmospheric layers, Vertical temperature profile, heat/radiation budget of the earth atmosphere systems. Properties of troposphere, thermodynamic derivation of lapse rate. Temperature inversion. Calculation of Global mean temperature of the atmosphere. Pressure variation in atmosphere and scale height. Biogeochemical cycles of carbon, nitrogen, sulphur, phosphorus oxygen. Residence times. Sources of trace atmospheric constituents: nitrogen oxides, sulphur dioxide and other sulphur compounds, carbon oxides, chlorofluorocarbons and other halogen compounds, methane and other hydrocarbons.

Tropospheric Photochemistry

Mechanism of photochemical decomposition of NO_2 and formation of ozone. Formation of oxygen atoms, hydroxyl, hydroperoxy and organic radicals and hydrogen peroxide. Reactions of hydroxyl radicals with methane and other organic compounds. Reactions of OH radicals with SO_2 and NO_2 . Formation of Nitrate radical and its reactions. Photochemical smog, meteorological conditions and chemistry of its formation.

UNIT-II

Air Pollution: Air pollutants and their classifications. Aerosols-sources, size distribution and effect on visibility, climate and health.

Acid Rain: Definition, Acid rain precursors and their aqueous and gas phase atmospheric oxidation reactions, damaging effects on aquatic life, plants, buildings and health. Monitoring of SO_2 and NO_x , acid rain control strategies.

Stratospheric Ozone Depletion: Mechanism of ozone formation, Mechanism of catalytic ozone depletion, discovery of Antarctic ozone hole and role of chemistry and meteorology, control Strategies.

Green House Effect : Terrestrial and solar radiation spectra, major green house gases and their sources and global warming potentials. Climate change and consequences.

Urban Air Pollution: Exhaust emissions, damaging effects of carbon monoxide, monitoring of CO , control strategies.

UNIT-III

Aquatic Chemistry and Water Pollution

Redox chemistry in natural waters. Dissolved oxygen, biological oxygen demand, chemical oxygen demand, determination of DO, BOD and COD. Aerobic and anaerobic reactions of organic sulphur and nitrogen compounds in water, acid-base chemistry of fresh water and sea water. Aluminium, nitrate and fluoride in water, petrification, sources of water pollution, treatment of waste and sewage, purification of drinking water, techniques of purification and disinfection.

UNIT-IV

Environmental Toxicology

Toxic Heavy Metals: Mercury, lead, arsenic and cadmium, causes of toxicity, bioaccumulation, sources of heavy metals, chemical speciation of Hg, Pb, As, and Cd, biochemical and damaging effects.

Toxic Organic Compounds: Pesticides, classification, properties and uses of organochlorine and organophosphorus pesticides, detection and damaging effects.

Polychlorinated Biphenyls: Properties, use and environmental continuation and effects.

M. Sc. ZOOLOGY II SEMESTER
ZOL E202: WILD LIFE, ITS MANAGEMENT AND
CONSERVATION

Max. Marks: 100

Total Hours: 60

UNIT-I**Wildlife:**

1. Definition and significance.
2. National park and Sanctuaries, Reserves, Hot spots and Hope spots.
3. IUCN classification of species, red data book.

UNIT-II

1. Techniques of studying wild life, traditional and advanced both.
2. Endangered species of India and their present status.
3. Measures adopted by government to protect them.
4. Management of excess population and translocation, Bio-telemetry, care of injured animal and Quarantine

UNIT-III

1. Management of special habitats.
2. Problems in plantations and exploited forests.
3. Species conservation projects: Tiger, lion, rhino and crocodile management plan for protected areas
4. Threats to survival of slender Loris, Musk Deer, Great Indian Bustard and Olive Ridley turtle.

UNIT-IV

1. Wildlife and livelihood, wildlife and illegal trade, its control
2. Use of Biotechnology in Wild life conservation.
3. Captive breeding *in-situ* and *ex-situ* gene pool conservation.
4. Indian biodiversity act, economics of Indian biodiversity.
5. Wildlife protection Act 1972 its amendments and its applications.

Practicals

1. Study of wildiife habitat.
2. Visit to Zoological Park/ National park and sanctuaries/ reserves and hot spots.
3. Study of different type of animals in terrestrial and aquatic habitat
4. Quantitative estimation of any two species in nature by traditional method.
(Insect, amphibian, reptiles or mammals).

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UNIT-III**Weather and climate:**

1. Definitions and scope of climatology, weather and climate, components of climate system, Climatic regions of India.
2. Earth's thermal environment, earth intercepts solar radiation, seasonal variation in intercepted solar radiation, air temperature in relation to altitude.
3. Global circulation of air masses, wind and earth's rotation on ocean currents, influence of temperature on moisture content of air, global pattern of precipitation, influence of topography on regional pattern of precipitation.
4. Classification of climate-Koepfen's classification and Thorn Thwaite's scheme, Climatic zones, Clouds and their types.
5. Causes of climate change. Effect of climate change on ecosystems, organisms and human welfare.

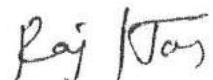
UNIT-IV**Landscape ecology:**

1. Land and Landscape processes; Hierarchy: ecosystems to land units; ecological principles at work with Landscapes.
2. Human dimensions and Land use in agro-ecosystems, urban ecosystems, rangelands, riparian and wetland systems (Keoladeo, Sambhar Lake and Sunderbans), coastal and estuarine systems (Chilka Lake, Kerala Backwaters and Ennore Creek).
3. Ecological land degradation, desertification, water logging, salinization and soil erosion.
4. Ecological assessment of landscape for vegetation and habitat. Integrated analytical techniques- land suitability analysis and carrying capacity studies.

**M.Sc. ZOOLOGY III SEMESTER
ELECTIVE GROUP D (SPECIAL PAPER)
ZOL 3 D02: ENVIRONMENTAL BIOLOGY
POPULATION ECOLOGY, ENVIRONMENTAL
ADAPTATIONS AND
ENVIRONMENTAL DISASTERS**

Max. Marks: 100**Total Hours: 60****UNIT-I****Population ecology:**

1. Population and its characteristics.



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2. Demography- Life tables, generation time, reproductive value, Census and sampling, Population indices
3. Population growth: Growth of organisms with non-overlapping generations, stochastic and time lag models of population growth, stable age distribution.
4. Population regulation: Extrinsic and intrinsic mechanisms, population density, population dispersal.
5. Methods of population estimation- Point and line survey methods, Belt and Quadrant transect.

UNIT-II

Environmental adaptations:

1. Kinds of Adaptations, Aquatic adaptations, Secondary aquatic adaptations, Pelagic adaptations, Deep sea adaptations. Eco-physiological adaptations to fresh water and marine environments.
2. Terrestrial adaptations- Desert adaptations, Cave adaptations, Cursorial adaptations, Fossorial and subterranean adaptations, Arboreal adaptations, Flight adaptations.
3. Eco-physiological adaptations to terrestrial environments.
4. Parasitic adaptations, adaptations for defense and mimicry.

UNIT-III

Environmental limiting factors:

1. Law of minimum, Law of Tolerance, Environmental limiting factors.
2. Physical environment as limiting factor- Light, humidity, fire, atmospheric gases, current and pressure, Microenvironment and Ecological optima.
3. Inter and intra-specific relationships: Predator-prey relationship, predator dynamics, optimal foraging theory (patch choice, diet choice, prey selectivity, foraging time). Parasitism, Mutualism, Phoresis, Antibiosis, Insect-plant interactions.

UNIT-IV

Environmental phenomena and disasters:

1. Definition, Earthquake, flood, Tsunami, draught.
2. Windstorms, Cyclones and anticyclones.
3. Volcanoes, Avalanche, lightning, El Nino and La Nina
4. Environmental degradation by anthropogenic activities: Ozone depletion and Green house effect. Nuclear disasters: Fukushima Daiichi nuclear disaster, Japan; Chernobyl disaster, Russia; Bhopal Gas Tragedy, Exxon Valdez Oil Spill.
5. Disaster management.

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M.Sc. ZOOLOGY III SEMESTER
ELECTIVE GROUP D (SPECIAL PAPER)
ZOL 3 D03: ENVIRONMENTAL BIOLOGY
NATURAL RESOURCES, BIODIVERSITY, WILDLIFE AND
CONSERVATION BIOLOGY

Max. Marks: 100

Total Hours: 60

UNIT-I

Natural resources:

1. Natural resources and their types- Water resources, Land resources and Biological resources, Mineral resources and their cycles.
2. Energy resources- Renewable sources of energy, energy from biomass
3. Non-renewable sources of energy, Nuclear energy, geothermal energy.
4. Energy for the future, Forest resource.
5. Water- A vital resource, India's Water budget.
6. Human impact on natural resources.

UNIT-II

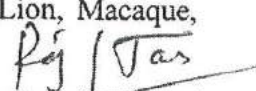
Biodiversity:

1. Concept of biological diversity, origin of biodiversity, types of biodiversity, values of biodiversity, loss of biodiversity.
2. Biodiversity and ecosystem function, Bio-wealth, Bioprospecting and Biopiracy.
3. Critically endangered Indian animals, Biotic impoverishment
4. Biotechnology and biodiversity, Milestones of biodiversity conventions, Biotechnology and Intellectual Property Rights (IPR).
5. Biological diversity Act of India, National Biodiversity Authority, Indian Biodiversity Act 2002, National Board of Biodiversity, State Board of Biodiversity. Legal coverage of biodiversity conservation and use in India.

UNIT-III

Wildlife and its management:

1. Wild life schedules, National parks, Sanctuaries, Reserves and Organs. IUCN classification of endangered species, Red data book. Threatened animals of India.
2. Restoration of wild life population: Re-introduction or Rehabilitation (soft and hard release) and captive breeding, wild life corridor.
3. Techniques of studying wild life: Radiometry, Photographic and Pug mark identification of animals.
4. Management: Special Protection Programmes- Tiger, Rhino, Lion, Macaque, Elephant, Crocodile and Great Indian Bustard.


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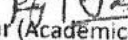
UNIT-IV

Biodiversity conservation:

1. Strategies for biodiversity conservation- *In-situ* conservation: sanctuaries, biospheres reserves, national parks, nature reserves, preservation plots. *Ex-situ* conservation: botanical gardens, zoos, aquaria, homestead gardens, herbaria, *In-vitro* conservation: germplasm and gene bank; tissue culture: pollen and spore bank, DNA bank. Global Environment Facility-World Bank initiatives. Biodiversity hotspots and hope spots and their characteristics.
2. National and international programmes for biodiversity conservation. CITES and TRAFFIC.
3. Traditional conservation strategies; People's participation in Conservation-Participatory Forest Management (PFM), Community reserve and People's Biodiversity Register (PBR). Biodiversity Management Committee (BMC).
4. Wildlife values and eco-tourism, wildlife distribution in India, problems in wildlife protection-Policies and programmes.

Practicals

1. Mark location of different biomes on world map and write their characteristics.
2. Mark important Sanctuaries and National Parks of Rajasthan on map and write details of any two.
3. Mark major Ecozones of India on map of India. Visit a desert/grass land /rain forest and submit write up.
4. Soil texture using micrometry from two different sites.
5. Determination of moisture content of soil.
6. Determination of soil pH from at least three different locations and correlate it with the soil type.
7. Analysis of soil composition: Chloride, Calcium, Magnesium, Potassium and Phosphorous.
8. Estimation of sulphates in soil.
9. Estimation of fluoride in soil.
10. Measurement of water quality based on Acidity, Alkalinity, Dissolved oxygen and Free CO₂ in water sample.
11. Study the abiotic components i.e. pH, turbidity, temperature and light intensity of water in a pond ecosystem.
12. To study the biotic components of pond ecosystem.
13. Estimation of primary productivity in two different aquatic ecosystems and interpretation of the results.
14. Compare the results of Dark and Light bottle method and Chlorophyll method.
15. Identification of trophic levels from gut analysis (Fish or insect).
16. Study the ecology of Aravali Hill around the Arboretum in Jaipur.
17. Find out density of Gerbils/ Fish by Mark and recapture method (Lincoln index).


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M.Sc. ZOOLOGY IV SEMESTER
ELECTIVE GROUP D (SPECIAL PAPER)
ZOL 4D01: ENVIRONMENTAL BIOLOGY
ENVIRONMENTAL TOXICOLOGY AND ENVIRONMENTAL
HEALTH

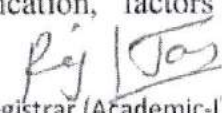
Max. Marks: 100

Total Hours: 60

UNIT-I

Ecotoxicology:

1. Definition, scope and history of Toxicology, Fundamental of Ecotoxicology, Acute, Sub-acute and Chronic toxicity, Doses, Dose-Response relationships, LC₅₀, LD₅₀, Effective Concentration (EC), Maximum Acceptable Toxicant Concentration (MATC), Application Factor (AF), Cumulative toxicity.
2. Toxicity Testing: Definition, purpose, criteria for selection of test organism, methodology, estimation of LC₅₀ & LD₅₀, Limitation and importance of bioassay, teratogenicity, carcinogenicity and mutagenicity. Good Laboratory Practices (GLP).
3. Movement, distribution and fate of toxins in the environment, Bioconcentration, Bioaccumulation, Processes of bioaccumulation, Biomagnification, factors affecting biomagnification.


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Syllabus M.Sc. Zoology (Semester)

4. Translocation of xenobiotics: absorption, distribution, biotransformation and excretion.
5. Detoxification mechanisms: Phase I and Phase II reactions.
6. Antidotal Procedures: Classification of Antagonists, Pharmacological assessment of certain antidote actions, Principles of Antidotal treatment, Antidotal procedres.

UNIT-II

Environmental pollution and management:

1. Sources and classification of pollutants, primary and secondary pollutants, Effects of pollutants on human health, animal, vegetation, materials and structures.
2. Air quality standards and monitoring methods; Water quality standard for potability- Pollution parameters, BOD, COD, Coliform bacteria; Soil quality parameters and test methods. National and International standards of noise, Assessment and measurement of sound; Safety standards of Radiation.
3. Liquid waste management: Treatment of water for potable purpose (mixing,

M.Sc. ZOOLOGY IV SEMESTER
ELECTIVE GROUP D (SPECIAL PAPER)
ZOL 4D03: ENVIRONMENTAL BIOLOGY
ENVIRONMENTAL EDUCATION, MANGEMENT AND
REGULATIONS

Max. Marks: 100

Total Hours: 60

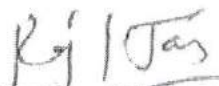
UNIT-I

Environmental education:

1. Knowledge about the environment, knowledge about humanity- environment relationship.
2. Knowledge about Environment and population growth, knowledge about the solution and prevention of environmental problems, rational use of resources.
3. Environmental education- goals, objectives, guided principles.
4. Strategies for environmental education- Authorisation, Curriculum renewal, teacher's training renewal, teaching methods, evaluation.
5. Models for future environmental education system.

UNIT-II

Environmental institutions and international cooperation:


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Syllabus M.Sc. Zoology (Semester)

1. Environmental Institutions, International Union for Conservation of Nature and Natural Resources (IUCN), World Wildlife Fund (WWF), US Environmental Protection Agency (EPA).
2. Global Environmental Agreements, Institutions of climate change, Indian Environmental Institutions, Central Pollution Control Board (CPCB).
3. Environmental Policies in India, Environmental Laws/Acts, National Environmental Tribunal Bill, 1992.
4. Environmental movements in India- The Chipko movement, Silent Valley movement, Appiko movement, Narmada Bachao Andolan, Teri Dam Conflict.

UNIT-III

Environmental laws:

1. Environmental Legislation status in India.
2. The Water (Prevention and Control of Pollution) Act, 1974.
3. The-Air (Prevention and Control of Pollution) Act, 1981.
4. The Environment (Protection) Act, 1986.
5. The Biological Diversity Act, 2002.
6. The Wildlife (Protection) Act, 1972.
7. Bio-Medical Waste (Management and Handling) Rules, 1998.

Paper code: Geo A01: Man and Natural Environment

Section-A

Definition and scope of environmental geography, its relation with other subjects, elements of the environment, man and environmental relationships: environmental determinism, possibilism and neo determinism, biosphere and its components, concept of ecology and ecological succession, types of ecosystems, energy flow in the ecosystem, soil system, geobiochemical cycles, major biomes of the world.

Section-B

Environmental degradation and natural disasters, environmental crises: ozone depletion, green house gas effects, El-Nino, global warming and climate change, water scarcity, acid rain, sea level change; desertification, environmental pollutions: water, air soil, noise and radioactive.

Section-C

Environmental quality, sustainable development, environmental management, soil and forest resources management, water management, wildlife conservation, biodiversity and its conservation, environmental awareness and education, international efforts of environmental conservation.

Readings Recommended:

Agarwal, A. and Narain, S. 1977: Dying Wisdom: Rise, Fall and Potential of India's Traditional Water Harvesting System. Centre for Science and Environment, New Delhi.

Economic and social commission for Asia and the Pacific United Nations 1989: Guidelines for the preparation of National Master Water Plans.

Govt. of India, 1980: Ministry of Energy and Irrigation. Rashtriya Barh Ayog (Report-National Commission of Floods. Vol. I & II, New Delhi).

Govt. of India, 1972: Ministry of Agriculture Report of the Irrigation Commission. Vol I & IV, New Delhi).

Gulhati, N.D. 1972: Development of Inter-State Rivers: Law and Practice in India. Allied Pub., Bombay.

International Water Resource Association and Central Board of Irrigation & Power, Water of Human Needs, 1975: Vols. I to V Proceedings of the Second World Congress on Water Resources, 12-16 December, New Delhi.

Jones, J.A. 1997: Global Hydrology: Processes, Resources and Environmental Management. Longman.

Kates, R.W. and Burton, I. (ed.) 1980: Geography, Resource and Environment Management, Ottawa.

Krutilla, John V. and Eckstein, O. 1958: Multiple Purpose River Development: Studies in Applied Economic Analysis. John Hopkin's Press, Boston.

Law, B.C. (ed.) 1968: Mountains and Rivers of India IGU. National Committee for Geography, Calcutta.

Matter, J.R., 1984: Water Resources Distribution, Use and Management. John Wiley, Marylane.

Michael, A.M. 1978: Irrigation: Theory and Practices. Vikas Publishing House pvt., New Delhi.

Newson, M. 1992: Land, Water and Development River Basin systems and their Sustainable Management. Routledge, London.

Pareira, H.D. 1973: Landuse and Water Resources. Cambridge University Press, Cambridge.

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Paper Code: Geo 302: **Fundamentals of Natural Hazards and Disaster Management**

Section-A

Concept of Hazards, Risk, Vulnerability and Disaster. Types of Hazards : Natural, man-made. Natural Disasters : Floods, drought and desertification, earthquakes, landslides, avalanches, cyclones, forest fires.

Section-B

Regional Dimension of Hazard : Occurrence and trends with special reference to northwest India. Case Studies : Floods in Delhi, Major Fires in Kolkata, Earthquakes in Bhuj, Rail Accidents in India.

Section-C

Disaster Management : Concepts relating to the Pre-disaster phase, emergency phase, post-disaster phase. Disaster Management Mechanism In India : Agencies, Plans and Policies.

Recommended Readings :

Allan, S., Adam, B. and Carter, C. (eds.) (2000), Environmental Risks and the Media, Routledge, London.

Ambala-Bertrand, J.M. (1993), Political Economy of Large Natural Disasters : With Special Reference to Developing Countries, Clarendon Press, Oxford.

Dlaikie, P and Others (1994), At Risk : Natural Hazards, People's Vulnerability and Disasters, Routledge, London.

Burton, I., Kates, R.W. and White, G.F. (1993), Environment as Hazard, 2nd edition, Guilford Press, New York.

Hewitt K. (1997), Regions of Risk : A Geographical Introduction to Disasters, Longman, London.

Kasperson, J.X., Kasperson, R.E. and Turner, B. L. (1995), Regions at Risk : Comparisons of Threatened Environments, United Nation University Press, Tokyo.

Mitchell, J.K. (ed.), (1999), Crucibles of Hazard : Mega-Cities and Disasters in Transition, United Nations University Press, New York.

Quarantelli, E.L. (ed.), (1998), What is a Disaster? Perspective on the Question, Routledge, London.

Schneid, T. and Collins, L. (1998), Disaster Management and Preparedness, Lewis Publishers, Washington, D.C.

Godschalk, D.R. et.al. (1999), Natural Hazard Mitigation: Recasting Disaster Policy and Planning, Island Press, Washington, D.C.

Paraswamam, S. and Umikrishnan, P.V. (2000), India : Disaster Report, Oxford University Press, New Delhi.

Kapur, Anu and Others (2005), Disasters in India : Studies of Grim-Reality, Rawat, Jaipur.

Gupta, M.C., Gupta, L.C., Tamini, B.K., Sharma, Vinod, K. (2000), Manual on Natural Disaster Management in India, National Disaster Management Centre, New Delhi.

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Paper Code: Geo A01: Bio Geography

Section A

Definition, scope and significance nature, approaches, history, recent trends and developments, plant and animal ecology forms and functions of eco system, ecosystem with special reference to mountain and desert factors influencing distribution of flora, taxonomical and ecological classification of plant, ecological succession, ecotone and community, patterns of distribution of world vegetation.

Section B

Nature and classification of animals, dispersal and migration of animals; type and causes - case studies, geographical isolation, the zoo-geographical region, biogeography of the seas: island biogeography.

Section C

Conservation and management of forest and wild life with reference to India, process of desertification, its consequences and management principals, projecting into the future: climate change: biogeographical consequences of global change: changing communities and biomes, effect of climate change on biological diversity, environmental hazards and problems of pollutions.

Recommended Readings:

- Aruneyulu, Y. 2002: Environmental Impact Assessment Methodologies. B.S. Publications, Hyderabad.
- Aruneyulu, Y. 2004: Introduction to Environmental Science. B.S. Publications, Hyderabad
- Beaillie, P. Cannon, T. and Davis, I (eds.) 2004: At Risk: Natural Hazards Peoples Vulnerability and Disasters. Routledge, London
- Clarke, J.I. Curson, P. Kayastha, S.L. and Ng, P. (eds.) 1991: Population and Disaster. Basil Blackwell, U.S.A.
- Cox, C.B. Moore, P.D. 2010: Biogeography- An Ecological and Evolutionary Approach. John Wiley and Sons, U.S.A.
- Huggitt, R.J. 1998: Fundamentals of Biogeography. Routledge, London.
- Ladle, R.J. and Whittaker, R.J. 2011: Conservation Biology. Blackwell Publications Co., U.S.A.
- Mathur, H.S. 1988: Essentials of Biogeography. Pointer Publishers, Jaipur.
- Macdonald, Geen, 2002: Biogeography: Introduction to Space-Time and Life. John Wiley, New York.
- Oduan, E.P. 1975: Ecology, Rowman and Littlefield, Lanhan U.S.A.
- Robinson, H. 1982: Biogeography. Eies, Mc.Donald and Evans London.
- Singh, A.K., Kamra, V.K. and Singh, J. 1986: Forest Resource: Economy and Environment. Concept Publishing Company, New Delhi.
- सिंह, एच. 2012: जीव भूगोल। प्रकाश पुस्तक भवन, जयपुर।

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Paper Code: Geo B02: Geography of Water Resources

Section A

Definition and scope of water resource geography, inventory and distribution of world's water resources, water resources of India, groundwater, hydrological cycle, demand and use of water, irrigation methods.

Section B

Salinity, alkalinity, overexploitation of groundwater and arsenic problem, water pollution, river water pollution, demand and water supply in industries, flood management, drought and dry land farming.

Section C

Water conservation/participatory approach, traditional methods of water conservation in India and Rajasthan, integrated basin planning, watershed management, river water disputes, water management by remote sensing technology, environmental disasters and water crisis.

Recommended Readings:

Agarwal, Anil 2001: Drought: Try Capturing the Rain, Briefing paper. Down to Earth. Centre for Science and Environment, New Delhi.

Agarwal, Anil and Narain Sunita, 1998, (eds.): Dying Wisdom: Rise, Fall and Potential of India's Traditional Water Harvesting System. Centre for Science and Environment, New Delhi.

Black, Magic, 2005: The No-Nonsense Guide to Water. Rawal Publications, Jaipur.

Black, Magic, 2004: A Matter of Life and Health. OUP, New Delhi.

Barlow and Clark Tony, 2002: Blue Gold: The Battle Against Corporate Theft of the World's Water. Earthscan, London.

भारती, वाराणसी, 1998: भारत की नदियाँ। मेरु प्रकाशक प्रेस ऑफ इण्डिया, नई दिल्ली।

Climate Change, 2001: International Panel on climate Change. Cambridge University Press.

Clarke, Robin 1991: Water: The International Crisis. Earthscan, London.

Dams and Development 2000: Report of the World Commission on Dams. November.

Das, P.K. 1996: The Monsoon, National book Trust, India, New Delhi.

Dhruv Narain, V.V., Shastri, G. and Patnaik U.S. 1990: Watershed Management. ICAR, New Delhi.

Dakshinamurti, C., Michael, A.M. and Mohan, S., 1972: Water Resources of India and their Utilization in Agriculture. IARI Monograph No. 3, New Delhi.

Gujjar, R.K. 1990: Geographical Perspectives on Irrigation. Rawal Publications, Jaipur.

Goudie, A., 1997: The Nature of the Environment. Blackwell, London.

Kimmerley, David. 1988: Troubled Water: River, Politics and Pollution. Hilten Shipman, London.

Mahol, S.C. and Singh, P.C., 1991: Soil and Water Conservation. Intercooperation Coordination Office, Jaipur.

Narain, Sunita, 2004: Down to Earth, February 29, 2004.

Park, C., 1997: The Environment. Principles and Application. Knowledge, London.

Rao, K.L., 1975: India's Water Wealth. Orient Longman, New Delhi.

Singh, Gopal, 2004: A Geography of India. Alpha Ram & Sons, New Delhi.

Shiva, Vandana, 2002: Water Wars: Privatization, Pollution and Profit. Pluto Press, London.

State Water Resources Plan, 1998: Volumes, I, II, III & Tahal consulting Engineer. Ltd. Tel Aviv, Israel.

Sidhartha, K., 1990: Flood in India: A Model for Generating Pastors. Cooder Patra.

Sidhartha, K., 1989: Drought in India: Spatio Temporal Variations. H.T. Patra.

Singh, R.L., 1971: India: A Regional Geography. MACI, New Delhi.

World, C., 1997: Reflection in Water: A Crisis of Social Responsibility. Cassell London.

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Paper - I : Elements of Public Administration

Section A

Meaning, Nature of Scope of Public Administration, Importance of Public Administration in Modern Society, Public and Private Administration. Evolution of the study of public Administration. Public Administration as a Social Science, Relationship with other Social Sciences - Political Science, Economics, Sociology, Law and Psychology; Approaches to the Study of Public Administration - Classical and Humanistic.

Section B

Organization - Meaning, Formal and Informal Organization, Principles of Organization Hierarchy, Unity of Command, Span of Control, Coordination, Centralization, Decentralization, Authority and Responsibility.

Chief Executive, Line and Staff Agencies, Supervision, Delegation, Leadership, Communication, Decision-making, Public Relations.

Section C

Budget, Meaning and forms, Principles of Budgeting, Budget as a tool of socio-economic Policy, Personnel Administration : Meaning, Nature and Importance, Nature of Bureaucracy, Civil Service and its Role in a developing Society, Classification, Recruitment, Training, Promotion of Civil Servants, Morale and Motivation in Public Administration.

Books Recommended :

1. A. Awasthi, S.R. Maheshwari, Public Administration.
2. C.P. Bhanbhari : Public Administration
3. D.R. Sachdeva and Meena Sogani : Public Administration - Concepts and Application.
4. Mohit Bhattacharya : Public Administration.
5. Rumki Basu : Public Administration.
6. M.P. Sharma and B.L. Sadna, Public Administration in Theory and Practice.
7. S.L. Goel; Public Administration - Theory & Practice.
8. Hoshier Singh and Pradeep Sachdeva, Administrative Theory.
9. Ravindra Sharma, Lok Prashashan Ke Tatav.
10. Surendra Katariya, Lok Prashashan Ke Tatav.

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B.A. Part-I 2021

Scheme:		
Max. Marks	200	Min. Pass Marks 72
Paper-I	100 3 hrs. duration	
Paper-II	100 3 hrs. duration	

नोट : समाजशास्त्र के दो प्रश्न-पत्र होंगे। प्रत्येक प्रश्न-पत्र 3 घण्टों में विभाजित होगा। प्रत्येक प्रश्न-पत्र के दो भाग होंगे। प्रथम भाग 40 अंको का होगा। इस भाग में दो अनिवार्य प्रश्न होंगे। 20 अंको के एक प्रश्न में, एक-एक अंक के 20 लघु प्रश्न होंगे तथा प्रत्येक प्रश्न का उत्तर परीक्षार्थी को अधिकतम 20 शब्दों में देना होगा। दूसरे अनिवार्य प्रश्न के अंतर्गत दो-दो अंको के 10 प्रश्न होंगे। प्रत्येक प्रश्न का उत्तर परीक्षार्थी को अधिकतम 40 शब्दों में देना होगा। निर्धारित शब्द सीमा से अधिक शब्दों में उत्तर देने पर अंक काटे जा सकेंगे। प्रश्न-पत्र के लिए निर्धारित कुल 3 घण्टों की अवधि में से अधिकतम 1 घंटे की अवधि प्रश्न-पत्र के इस भाग के लिए निर्धारित होगी।

प्रश्न-पत्र के इस प्रथम भाग के दोनों प्रश्न, 3 घण्टों में विभाजित पाठ्यक्रम के तीनों खण्डों से संबंधित होंगे। अर्थात् प्रश्न-पत्र के इस भाग में पूरे पाठ्यक्रम से संबंधित प्रश्न होंगे।

प्रश्न-पत्र के द्वितीय भाग में, पाठ्यक्रम के तीनों खण्डों में से प्रत्येक में से दो-दो निबन्धात्मक प्रकृति के प्रश्न होंगे। परीक्षार्थियों को प्रत्येक खण्ड में से कम से कम एक प्रश्न का चयन करते हुए, कुल 3 प्रश्न हल करने होंगे। प्रत्येक प्रश्न 20 अंकों का होगा। प्रश्न-पत्र का यह भाग 60 अंको का होगा।

Note: There shall be two papers in all, and each paper shall be of three hours duration and of 100 marks. Each paper shall consist of two parts. Part I shall carry 40 marks. There shall be 2 questions in Part-I, first question will consist of 20 short questions of 1 mark each, carrying a word limit of 20 words. The second question will consist of 10 questions of 2 marks each, carrying a word limit of 40 words. Marks may be deducted if the word limit is exceeded. This part of the question paper will be given maximum one hour duration and shall relate to all the three sections covering thereby the entire course.

Part-II of the question paper shall be divided into three sections comprising 6 essay type questions of 20 marks each. Candidates will be required to attempt 3 questions selecting one question from each section. This part of the question paper shall be of 60 marks.

Paper I: Introduction to Sociology

Max Marks: 100

Unit 1: Understanding Sociology

- Origin of Sociology, Meaning, Nature, Subject Matter and Scope of Sociology.
- Sociology and other Social Sciences.
- Scientific and Humanistic Perspectives.

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Paper I: Sociological Thought

Max Marks: 100

Unit I: Classical Sociological Tradition

- Karl Marx: Dialectical Materialism, Class struggle
- Emile Durkheim: Mechanical and Organic Solidarity, Social Fact
- Max Weber: Social Action, Types of Authority

Unit II: Contemporary Sociological Tradition

- Jurgen Habermas: Legitimation Crisis, Communicative Action
- Antonio Gramsci: Hegemony, Civil Society
- Anthony Giddens: Modernity, Structuration

Unit III: Indian Sociological Tradition

- M.N. Srinivas: Sanskritization, Dominant Caste
- D.P Mukherji: Diversity, Dialectics of Tradition
- A.R Desai: Nationalism, Path of Development

Essential Readings: (in English) :

1. Doshi, S.L. 2003: Modernity, Post Modernity and Neo-Sociological Thought, Jaipur: Rawat Publication.
2. Coser, Lewis A., 2008: Masters of Sociological Thought, Jaipur: Rawat Publication.
3. Nagla, B. K. 2013: Indian Sociological Thought, Jaipur: Rawat Publication.
4. Raymond Aron, 1967: Main Currents in Sociological Thought, (Vol. I & II), London: Penguin Books.

Essential Readings: (in Hindi)

1. दोषी, एस. एल., 2003: आधुनिकता अंतर-आधुनिकता एवं नव-समाजशास्त्रीय सिद्धान्त, जयपुर: रावत पब्लिकेशन्स
2. हुसैन, मुजतबा, 2010: समाजशास्त्रीय विचार, नई दिल्ली: ओरियंट ब्लैकस्वॉन
3. दोषी, एस. एल., 2007, आधुनिक समाजशास्त्रीय विचारक, जयपुर: रावत पब्लिकेशन्स
4. मुकर्जी, रवीन्द्रनाथ, 2003, सामाजिक विचारधारा, दिल्ली: विवेक प्रकाशन

Paper II: Introducing Sub Sociologies

Max Marks: 100

Unit I: Sociology of Urban Society

- Concepts: City and its Types, Urbanization, Urbanism, Migration
- Urban Sociology: Nature, Subject Matter, Significance
- Issues: Slums, Health and Sanitation

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Syllabus : B.A. Part-I

- Gerrig, R.J., Zimbardo, P.G., Svartol, F., Brennen, T., Donaldson, R. & Archer, T. (2013). *Psychology and Life*. New Delhi: Pearson Education India.
- Ciccarelli, S.K., White, J. N. & Misra, G. (2017). *Psychology*. New Delhi: Pearson Education India.
- सिंह. अरुणकुमार (2017), आधुनिकसामान्यमनोविज्ञान, नई दिल्ली : मोतीलालबनारसीदास।

Paper II - Social Psychology**Section-A**

1. Introduction: Meaning, Nature, Scope and Goals of Social Psychology. Methods of Social Psychology: Experimental and Non-Experimental Methods.
2. Social Perception and Person Perception: Social Perception- Meaning and Nature; Perceptual Defense, Perceptual Accentuation and Subliminal Perception. Person Perception: Meaning and Nature, Role of Non-verbal Cues; Perceivers' Characteristics and Role of Ongoing Interaction.
3. Attitudes: Nature, Functions, Formation, Change and Measurement.

Section-B

4. Prejudice and Discrimination: Nature and Origin; Reduction of Prejudice and Discrimination.
5. Interpersonal Attraction: Proximity and Affective basis, Acquaintance and Need to Affiliate; Effects of Observable Characteristics, Similarity and Mutual liking.
6. Leadership: Definition and Functions; Types of Leadership. Trait, Situational and Contingency Approaches.

Section-C

7. Communication: Meaning, Nature and Types: Verbal and Non-verbal; Barriers in Communication.
8. Pro-Social Behavior: Personal, Situational and Socio-Cultural Determinants. Explaining Pro-Social Behavior: Empathy, Altruism Hypothesis, Negative-State Relief Model, Emphatic-Joy Hypothesis and Genetic-Determinism Model.
9. Aggression and Social Problems: Aggression- Theories, Determinants, Prevention and Control; Social Problems -Meaning and Nature; Types of Social Problems - Poverty, Deprivation, Population Explosion, Economic Development; Solutions to Social Problems.

Books Recommended :

- Baron, R.A., Branscombe, N.R., Byrne, D. & Bhardwaj, G. (2012). *Fundamentals of Social Psychology*, Noida: Dorling Kindersley South Asia.
- Branscombe, N.R. & Baron, R.A. (2018). *Social Psychology*. Noida :Pearson India Education.
- Myers, D.G. (1994). *Exploring Social Psychology*. New York: McGraw Hill
- अरुणकुमारसिंह, (2002), समाजमनोविज्ञानकीरूपरेखा, मोतीलालबनारसीदास, दिल्ली
D.S. (Taw)

Section A

Spatio-Social Perspectives on Crime:

Crime as a socially constructed and spatially embedded act – Concept, Definitions
Typologies of Crime- Interrelation with social inequality and underdevelopment.
Teleological bases- Dynamics of value system and morality -institutional regulation of
criminality and deviance, Evolution of political, legal and judiciary systems - Democracy
and secularisation – Social justice, human rights and Crime. Capitalist modes of
production – Flexibilisation of economy – Time and space convergence and post-
modernity- Neoliberalism – spatial dimension of crime – Contemporary trends. Theories
of Crime and space-Anomie; Cultural transmission, Crowding; labeling and conflict
theory; Power differential, A Critical review.

Section B

Place and Space in Crime

Emplacement in Crime- The built environment, Local subculture and locales of crime -
Mobility conditions and places of crime and criminals – regional patterns of crime in
India. Systemic violence- Implications of sex, age, religion, race, caste and class:
illustrations of sexual violence, child abuse, racist violence; homophobic violence, elder
abuse – World trends. Geographies of crime and fear- Use of space; Place, space and
social identity – socio-spatial exclusion. Gender and crime- patriarchy and sexual
violence- Femininity, masculinity and spatial expression of fear of violence – Rapes,
domestic violence, - homosexuality and crime.

Section C

Scale, Power, Social Space and Crime; Inter-relations

International Order and Crime- Patterns of flesh trade, drug trafficking – Geopolitics, war and
crime- Partition and violence. World patterns of terrorism – terrorism and violence in India.
Ethnic strife in South Asia – Communal riots in India - State Oppression, peoples'. Protest
and violence Indian examples. Crime, Justice and the state – Police, prosecution, Judiciary,
legislation and administration efficacy in space and society- Indian context.

Recommended Readings:

Pain Rachel, Barke Michael, Fuller Duncan, et. al., (2001), 'Introducing Social Geographies',
London, Arnold.

Clinard Marshall B. and Abbott, D. J. (1973), 'Crime in Developing Countries: A
Comparative Perspective, Wiley International, 1973.

Herbert, D. (1982): The Geography of Urban Crime, Longman London.

Humpheries, D. and Wallace, Don (1980): Capital Accumulation and Urban Crime, Social
Problems, Vol. 28, No. 2, pp. 179-193.

Newman, O. (1973): Defensible Space, Crime Prevention Through Urban Design,
Architectural Press, London.

Ahmad, A. (1999): Social Geography, Rawat Publishers.

Daniels, S. and Lee, R. (eds.)(1996): Exploring Human Geography, Arnold.

Castells, M., (1996): The Rise of the Network Society, Basil Blackwell, 1996.

Dear, M.J. and Flusty, S. (2000): The Spaces of Postmodernity, Blackwell.

Vincet J. Del Casino, (2009): Social Geography- Critical Introduction to Geography, Wiley-
Blackwell

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- Gerrig, R.J., Zimbardo, P.G., Svartol, F., Brennen, T., Donaldson, R. & Archer, T. (2013). *Psychology and Life*. New Delhi: Pearson Education India.
- Ciccarelli, S.K., White, J. N. & Misra, G. (2017). *Psychology*. New Delhi: Pearson Education India.
- सिंह. अरुणकुमार (2017), आधुनिकसामान्यमनोविज्ञान, नई दिल्ली : मोतीलालबनारसीदास।

Paper II - Social Psychology

Section-A

1. Introduction: Meaning, Nature, Scope and Goals of Social Psychology. Methods of Social Psychology: Experimental and Non-Experimental Methods.
2. Social Perception and Person Perception: Social Perception- Meaning and Nature; Perceptual Defense, Perceptual Accentuation and Subliminal Perception. Person Perception: Meaning and Nature, Role of Non-verbal Cues; Perceivers' Characteristics and Role of Ongoing Interaction.
3. Attitudes: Nature, Functions, Formation, Change and Measurement.

Section-B

4. Prejudice and Discrimination: Nature and Origin; Reduction of Prejudice and Discrimination.
5. Interpersonal Attraction: Proximity and Affective basis, Acquaintance and Need to Affiliate; Effects of Observable Characteristics, Similarity and Mutual liking.
6. Leadership: Definition and Functions; Types of Leadership. Trait, Situational and Contingency Approaches.

Section-C

7. Communication: Meaning, Nature and Types: Verbal and Non-verbal; Barriers in Communication.
8. Pro-Social Behavior: Personal, Situational and Socio-Cultural Determinants. Explaining Pro-Social Behavior: *Human Values* Empathy, Altruism Hypothesis, Negative-State Relief Model, *Emphatic-Joy Hypothesis* and Genetic-Determinism Model.
9. Aggression and Social Problems: Aggression- Theories, Determinants, Prevention and Control; Social Problems -Meaning and Nature; Types of Social Problems - Poverty, Deprivation, Population Explosion, Economic Development; Solutions to Social Problems.

Books Recommended :

- Baron, R.A., Branscombe, N.R., Byrne, D. & Bhardwaj, G. (2012). *Fundamentals of Social Psychology*. Noida: Dorling Kindersley South Asia.
- Branscombe, N.R. & Baron, R.A. (2018). *Social Psychology*. Noida :Pearson India Education.
- Myers, D.G. (1994). *Exploring Social Psychology*. New York: McGraw Hill
- अरुणकुमारसिंह, (2002), समाजमनोविज्ञानकीरूपरेखा, मोतीलालबनारसीदास, दिल्ली

Use of simple calculator will be allowed for statistical portions of all papers.

Paper I - Positive Psychology

Section A

1. Introduction : Definition, Goals and Assumptions of Positive Psychology; Relationship with other Branches of Psychology
2. **Happiness**: Meaning; Hedonic and Eudaemonic Viewpoint; Positive and Negative Affect; Theoretical Viewpoints; Determinants and Sources; Authentic Happiness; Enhancement of Happiness and Wellbeing.
3. Positive Cognitive States and Processes: Self-Efficacy, Optimism, Hope, Mindfulness, Flow and **Spirituality**. → Human Values

Section B

4. Virtues and Strengths of Character: Classification and Measures of Human Strengths, Gallup's Clifton Strength Finder; VIA Classification; Identifying Personal Strengths.
5. Resilience: Meaning and Sources; Developmental and Clinical Perspective; Successful Aging and Growth through Trauma.
6. Self-Regulation and Self-Control: Meaning and Theories; Planning for Self-Regulation Success; Self-Regulation Problems – Goal Conflict, Goal Difficulty and Goal Disengagement.

Section C

7. Mental Health and Well-Being: Subjective Well-Being and Life Satisfaction, Social Well-Being and Psychological Well-Being, Complete State Model.
8. Emotional Intelligence: Meaning, Components and Theories; Enhancement of Emotional Intelligence.
9. **Pro-Social Behavior: Empathy, Altruism, Gratitude and Forgiveness**. → Human Values

Books Recommended:

- Snyder, C.R. & Lopez, S.J.(2007). *Positive Psychology*. New Delhi: Sage.
- Snyder, C.R. & Lopez, J.(2005). *Handbook of Positive Psychology*. New York: Oxford.
- Baumgardner, S. & Crothers, M. (2019). *Positive Psychology*. Noida: Pearson Education India.

Paper II - Psychological Testing and Assessment

Section-A

1. Psychological Testing and Assessment:- Definition, Difference between Testing and Assessment, Tools of Psychological Assessment Interview, Case History Data, behavioral Observation, Computers as tools.
2. Psychological Test: Nature, Functions and Uses of Psychological Test, Problem of test

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Paper IX - Applied Psychology

Section-A

1. Psychology in Industry: Personnel selection and classification.
2. Personal Assessment Techniques: Development and Training; Attitude and Motivation.
3. Organization Psychology: Leadership and Supervision, Participated Management, Job Design, Organizational Structure and Climate, Communication.

Section-B

4. Engineering Psychology: Human performance; Human factors in Equipment Design.
5. Stress Management: Psychological Determinants and Stress Management.
6. Information Technology and Mass Media: Understanding Wellbeing and Human Rights through Information Technology; Media and Communication, Media Violence and Cyber Crime.

Section-C

7. Psychology in Education: School System, Measurement and Evaluation, Instructional Psychology, Behaviour Modification in School Setups.
8. Community Psychology: Concept and Goals; Social Change and Social Action, Arousing Community Consciousness.
9. Sports Psychology: Meaning, Nature and Scope; Psychological Skills in Sports.

Books Recommended :

- ◇ Anastasi, A. (1979). *Fields of Applied Psychology*. New York: McGraw Hill.
- ✓ Schien. (1967). *Organizational Psychology*. New Delhi: Prentice-Hall.
- ✓ Korchin, S. (1976). *Modern clinical Psychology*. New York: Basic Books. (647)
- ⊙ Mohan, J. Chaddha, N.K. & Akhtar, S.S. (1992). *Psychology of Sports*. New Delhi: Fiends Publications.

Paper X - Positive Psychology

Section A

1. Introduction: Definition, Goals, Assumptions and Historical Perspective; Relationships with other Branches of Psychology.
2. Eastern and Western Perspectives on Positive Psychology.
3. Virtues and Strengths of Characters: Classification and Measures of Human Strength-Gallup's Clifton Strength Finder. The VIA Classification. Identifying Personal Strengths.

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Section B

4. Happiness and Wellbeing: Definition; Hedonic and Eudaimonic basis of Happiness; Subjective Wellbeing, Psychological Wellbeing and Social Wellbeing.
5. Resilience: Meaning, Developmental and Clinical Perspective, Sources of Resilience, Successful Aging and Growth through Trauma.
6. Pro-Social Behavior: Empathy, Altruism, Gratitude and Forgiveness

Section C

7. Self-Regulation and Self Control : Theories and Planning for Self-Regulation Success, Self-Regulations Problems – Goal Conflict, Goal Difficulty and Goal Disengagement
8. Positive Cognitive States and Processes: Self Efficacy, Optimism, Hope, Mindfulness, Flow and Spirituality.
9. Positive Emotional States and Processes: Meaning, Theories and Resources of Positive Emotions; Emotional Intelligence; Emotional Focused Coping.

Books Recommended :

- ✓ Snyder, C.R. & Lopez, S.J.(2007). *Positive psychology*. New Delhi: Sage.
- ⊙ Snyder, C.R. and Lopez. J.(2005). *Handbook of positive psychology*. New York: Oxford Press.
- ✓ Baumgardner, S. & Crothers, M. (2009). *Positive psychology*. New Delhi: Pearson education.

Paper XI - Theories of Personality

Section-A

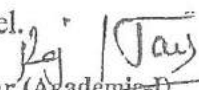
1. Introduction: Definition, History and Basic Issues. Biological and Cultural Determinants of Personality.
2. Psychoanalytic Theories: Freud and Modern Developments.
3. Neo-Analytic and Ego Theories: Jung, Adler, Horney and Erikson.

Section-B

4. Biological Theories: Genetic Effects and Temperament; Sociobiological and Evolutionary Factors.
5. Behaviourist and Learning Theories: Watson, Skinner, Dollard and Miller.
6. Cognitive and Social Cognitive Theories: Kelly, Seligman, Rotter and Bandura.

Section-C

7. Trait Theories: Cattell, Allport and Big Five Model.
8. Humanistic and Existential Theories: Fromm, Rogers and Maslow.
9. Person-Situation Interactionist Theories: Sullivan, Murray and Mischel.


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M.A. Previous Semester I

PSY A03 - Vocational Psychology

Unit-I: Introduction: Definition, Meaning, History of Vocational Psychology; Current issues and Innovations in Vocational Psychology; Work Adjustment, Career Counselling.

Unit-II: Theoretical Perspectives: Trait and Factor Theories: Holland, Dawis; Value - Based Theory of Occupational Choice: Brown; Developmental Theories; Super, Gottfredson; Learning Theories: Krumboltz and Bandura.

Unit-III: Vocational Choice: Meaning, Definition, Vocational Decision Making Process; Decision-Making Styles, Vocational Rehabilitation.

Unit-IV: Clients with Special Needs: Individuals with Disabilities, Women in the Workforce, → Gender, Displaced Workers, Economically Disadvantaged Group.

Books Recommended:

- ① Brown, D. (2007). *Career Information, Career Counselling and Career Development.* Boston: Pearson.
- ② Walsh, W.B., & Savickas, M.L. (2005). *Handbook of Vocational Psychology.* New Jersey: Lawrence Erlbaum. → added
- ③ Crites, J.O. (1969). *Vocational Psychology.* New York: Mc Graw Hill.

PSY 711 General Lab

M.A. / M.Sc. Semester-I			
A	Experiments	1	Psychophysical Experiments (RL / DL)
		2	Paired Comparison Method (Feeling Values / Preferences)
B	Major Tests	1	Differential Aptitude Test
		2	Wechsler Adult Intelligence Scale

→ 2nd Year Honors Annex,

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M.A. Previous Semester II

C	Minor Tests	<ol style="list-style-type: none"> 1. Sixteen Personality Factors 2. Creative Thinking (Verbal and Non-Verbal) Test 3. Mental Health (Subjective, Psychological & Social Wellbeing) 4. Clinical Analysis Questionnaire 5. Cognitive Capabilities Test for Transition Period 6. Pro Environmental Behaviour Scale 7. Self Directed Search 8. Career Decision Scale 	
D	Cataloguing & Profiling (any two)	<ol style="list-style-type: none"> 1. Clinical & Health 2. Social & Environmental 3. Vocational & Organizational 4. Self & Personality 5. Educational & Developmental 6. Cognitive & Neuropsychological 	
E	Internship/Field Work		

PSY 731 Project Work

1. Seminar Presentation
2. Research Paper Analysis (Any Two)

M.A./M.Sc. Semester II

- PSY 801 Advanced Social Psychology
- PSY 802 Biopsychology
- PSY 803 Statistics in Psychology
- PSY 811 General Lab
- PSY B01 Psychology of Personality
- PSY B02 Clinical Disorders
- PSY B03 Counselling Psychology
- PSY 831 Project Work

M.A./M.Sc. Semester II

PSY 801 - Advanced Social Psychology

Unit-I: Introduction: Theoretical orientations; Scientific Nature, Applications and Methods of Social Psychology. Application in Work Setting: **Work related Attitudes**, Nature and Effects of Job Satisfaction, **Organizational Citizenship Behavior**, Social Psychology of Entrepreneurship.

Professional Ethics

Unit-II: Attitudes and Prejudices: Attitude- Meaning, Theories, Attitude change; Prejudice - Origin and Cognitive basis; Techniques to Control Prejudice. Social Influence: Conformity - Nature, Characteristics and Theories; Factors affecting Conformity; Compliance - Meaning, Nature and Principles; Obedience - Basis and Experimental Studies.

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Books Recommended:

- Kaplan, H. J. & Sadock, B. J. (2004). *Comprehensive Textbook of Psychiatry*. Baltimore: Williams and Wilkins.
- *Diagnostic and Statistical Manual of Mental Disorders*. (DSM - IV - TR, 2000; DSM - 5, 2013) Washington, D. C : AP A P ublication .
- *The ICD - 10 Classification of Mental and Behavioural Disorders*. (2007) WHO .
- ✓ Sarasan, I. G . & Sarason, B . R . (2005) . *Abnormal Psychology: The Problem of Maladaptive Behaviour* . Delhi : P earson E ducation .
- ✓ Butcher, J . N . , Hool ey, J . M . , Mineka, S . & Dwi ve di B . C . (201 9) . *Abnormal Psychology* . Pears on Educati on .

PSY B03 Counselling Psychology

- | | | |
|----------|---|-----------------------|
| Unit-I | Introduction: Nature and Historic Perspectives; Development of Institutional Counselling Programmes; Professional Counsellor – Roles and Functions. Ethical and Legal Guidelines: Nature of Ethics, Ethical Issues, Counsellor and Law, Legal Concerns of Counsellors, Confidentiality, Competence and Malpractice, Counsellors as Expert Witnesses. | Professional → Ethics |
| Unit-II | Counselling Process and Skills: Counselling Relationship – Meaning and Nature, Basic Communication Skills, Counselling Interview; Counselling Skills – Rapport Building, Assessment of Problem, Setting Goals, Selecting and Designing Interventions, Termination of Counselling. | |
| Unit-III | Theories of Counselling: Psychoanalytic Theory, Individual Psychology, Person Centred Theory, Behavioural Theory, Rational Emotive Behaviour Therapy, Reality Therapy, Transactional Analysis, Gestalt Counselling. | |
| Unit-IV | Group Techniques , Group Counselling Sensitivity Groups, Encounter Groups, Task Groups, Psycho-education Groups, Group Process Ethnic Groups and Multicultural Counselling | |

Books Recommended:

- ✓ Gladding, S. (2009). *Counselling: A comprehensive profession*. New Delhi: Pearson education.
- * Gibson, R.L. & Mitchell, M.H. (2005). *Introduction to Counselling and Guidance*. New Delhi: Pearson education.
- George, R.L. & Cristiani, T.S. (1994). *Counselling Theory and Practice*. New Delhi: Prentice Hall.
- Capuzzi, S. (2008). *Counselling and Psychotherapy*. New Delhi: Pearson education.
- Burnard, P. (1992). *Counselling skills training: A source book of activities for Trainers*. New Delhi: Viva Books.

M.A. Final III Semester

M.A./M.Sc. Semester III

PSY 901	Positive Psychology
PSY 902	Cognitive Psychology
PSY 903	Research Designs
PSY C01	Health Psychology
PSY C02	Organizational Behavior
PSY C03	Neurodevelopmental and Neurocognitive Disorders
PSY 911	General Lab
PSY 931	Project Work

PSY 901 - Positive Psychology

- Unit I: Human Strengths and Pro-Social Behavior: Human Strengths; Gallup's Clifton Strength Finder and VIA Classification. Pro-Social Behavior: Empathy, Altruism, Gratitude and Forgiveness. → Human values
- Unit II: Positive Emotional States: Principle of Pleasure; Nature and Definition of Positive Affect and Positive Emotion, Happiness and Well Being, Emotional Focus Coping and Emotional Intelligence; Socio Emotional Selectivity and Emotional Story Telling.
- Unit III: Positive Cognitive States: Self Efficacy, Optimism, Hope, Mindfulness, Flow, Spirituality, Wisdom and Courage. → Human values
- Unit IV: Resilience: Meaning, Developmental and Clinical Perspective, Sources of Resilience, Successful Aging and Growth through Trauma, Self-Regulation and Self-Control: Theories and Planning for Self-Regulation Success.

Books Recommended:

- ✓ Snyder, C.R. & Lopez, S.J. (2007). *Positive Psychology*. New Delhi: Sage.
- ✓ Snyder, C.R. & Lopez, J. (2005). *Handbook of Positive Psychology*. New York: Oxford.
- ✓ Baumgardner, S. Crothers, M. (2017). *Positive Psychology*. New Delhi: Pearson education.

PSY 902 - Cognitive Psychology

- Unit I: Introduction: Meaning, Historical Antecedents and Emergence; Research Methods and Tools in Cognitive Psychology; Cognition across life Span; Meta cognition.
- Unit II: Attention: Nature of attention, Models of Selective Attention, Object recognition: Theories of Visual Pattern Recognition; Language: Basic Structure, Linguistic Hierarchy, Psycholinguistics.
- Unit III: Memory and Representation of knowledge: Memory: Dualist Models of Memory, Working Memory Model, Representation of Knowledge, Semantic Organization of Knowledge, Proportional Networks, Theories of Visual representation.
- Unit IV: Problem Solving, Logic, Decision Making and Consciousness: Problem solving: Representation of the Problem. Internal Representation Model, Logic and Decision making : Nature and Types; Consciousness: Frames, Functions and States of consciousness

Books Recommended:

- ⊙ Reigler, G.R. & Reigler, B.R. (2008). *Cognitive psychology: Applying the science of the Mind*. New Delhi: Pearson education.
- ⊙ Solso, R.L. (2004). *Cognitive Psychology*. New Delhi: Pearson education.
- ⊙ Srinivasan, N., Kar, B.R. & Panday J. (2010). *Advances in cognitive sciences*. New Delhi: Sage.

Recommended Book:

- ✓ Ogden, J. (2010). *Health Psychology*. New Delhi: Tata McGraw Hill.
- Linda, B., & Jess, F. (2007). *Introduction to Health Psychology*. New Delhi: Thomson.
- Di Matteo, M. R. & Martin, L. R. (2018). *Health Psychology*. Noida: Pearson India Education.

PSY C02 - Organizational Behaviour

- Unit-I: Introduction: Definition and Relationship to other Fields; Theoretical Frameworks - Cognitive, Behaviouristic, Social Cognitive; **Ethics and Ethical Behaviors in Organizations; Organizational Commitment - Meaning, Out sources and Guidelines to Enhance.** → *Professional Ethics*
- Unit-II: Motivational Needs and Processes : Meaning, Work Motivation Approaches: Content Theories ; Maslow's Hierarchy of Needs, Herzberg's Two Factor Theory; Alderfers ERG Theory; Process Theories: Vroom's Expectancy Theory; Porter Lawler Modal; Contemporary Theories: Equity Theory; Job Satisfaction - Meaning, Influences and Outcomes.
- Unit-III: Decision Making: Nature and Process; Behavioral Decision Making, Participative Decision Making Techniques, Creativity and Group Decision Making, Stress and Conflict : Meaning of Stress and Burnout, Causes of Stress - Extra Organizational, Organizational, Group Stressors and Individual Stressors; Effects of Stress, Intra Individual Conflict, Interactive Conflict; Coping Strategies for Stress and Conflict.
- Unit-IV: Leadership and Communication : Theories of Leadership - Trait, Group, Exchange, Contingency, Path, Goal Leadership Theory; Modern Theoretical Processes; Leadership Style : Managerial Grid, Blake and Mouton Managerial Grid, Hersey and Blanchard's Situational Approach. Communication : Nature and Functions; Non-verbal Communication, Inter personal Communication, Downward and Upward Communication, Interactive Communication .

Books Recommended:

- ✓ Luthans, F. (2002). *Organizational Behaviour*. New York: McGraw Hill International Edition.
- ✓ Robbins, S.P. (2019) *Organizational Behaviour*. New Delhi: Pearson Education.

PSY C03: Neurodevelopmental and Neurocognitive Disorders

- Unit-I: Intellectual Disabilities and Specific Learning Disorders: Nature, Types, Clinical Picture and Causal Factors.
- Unit-II: Communication and Motor Skills Disorders: Nature, Types, Clinical Picture and Causal Factors.
- Unit-III: Attention-Deficit/Hyperactivity and Autism Spectrum Disorders. Nature, Types, Clinical Picture and Causal Factors
- Unit-IV: Delirium, Major and Mild Neurocognitive Disorders: Nature, Types, Clinical Picture and Causal Factors

PSY X01	Applied Psychology
PSY X02	Indian Psychology
PSY X03	Psychological Testing
PSY X11	General Lab
PSY D01	Educational Psychology
PSY D02	Human Resource Management
PSY D03	Diagnostic and Therapeutic Techniques
PSY X31	Project Work

PSY X01 - Applied Psychology

- Unit-I: Forensic Psychology: Nature and Importance; Work of Forensic Psychologist; Training and Ethical issues in Forensic Psychology.
- Unit-II: Sports Psychology: Meaning, Nature and Scope; Psychological Interventions, Team Sports Rehabilitation of Injured Athletes. Military Psychology: Mental Health of Army Personnel, Psychological Tests for Selection and Training; Psychological Interventions.
- Unit-III: Psychology of Information Technology and Mass Media : Understanding Wellbeing and Human Rights through Information Technology; Media and Communication; Media Violence, Media Management (Advertising and Public Relations), Cyber Crime.
- Unit-IV: Psychology of Gender: Issues of Discrimination, Glass Ceiling, Diversity Management, Women and Indian Society, Issues of Illa Gender. Community Psychology: Concept, Social Change, Social Action, Leadership in Group Decision Making, Arousing Community Consciousness. → Human Values

Gender
Human
Values

Books Recommended:

- Swain, S. (2010). *Applied Psychology, India Specific and Cross Cultural Approaches*. New Delhi: Kalani Publications.
- Singh, S. (2008). *Psychology of Sports Performance: Applications, Interventions and Methods*. New Delhi: Global Vision.
- Graham, D. (2011). *Applied Psychology*. Chichester, West Sussex: British Psychological Society and Blackwell Publications.

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PSY X02 - Indian Psychology

- Unit-I: Indian Psychology: Introduction, Theoretical Models based on Classical Indian Psychological Thoughts, Meta-Theory, Possible Hypotheses, Methodological Issues and Integral Research Skills; Implications and Applications; Differences with Western Psychology.
- Unit-II: Mind and Personality: Beyond Mind; Ego and *Ahankara*, *Advaita Vedantic* Model, Buddhist Models, Sri Aurobindo's perspective.
- Unit-III: Knowledge and Consciousness: Indian Perspectives and Sri Aurobindo's reflection on Knowledge, Attitude and Means of Knowledge; Integral View on Consciousness.
- Unit-IV: Healing and Therapeutic Psychology: Ayurveda and *Pratyahara*: Concept and Scope; Psychotherapy and Indian Thought; Integral Yoga Psychology

Books Recommended:

- ① Cornelissen, M., Mishra, G. & Varma, S. (2014). *Foundations and Applications of Indian Psychology*. New Delhi: Pearson Education.
- ① Rao, K.R., Paranjpe, A. & Dalal, A. K. (2008). *Handbook of Indian Psychology*. Foundation Books
- ① Cornelissen, M., Mishra, G. & Varma, S. (2011). *Foundations of Indian Psychology*. New Delhi: Pearson Education.

PSY X03 - Psychological Testing

- Unit-I: Psychological Test: Nature, Types of Psychological Test, Uses of Testing, Historical Antecedents of Modern Testing; Contribution of Francis Galton, Cattell, Binet .Group Testing.
- Uni-II: Test Construction: Defining the Test, Selecting a Scaling Method; Constructing the Items, Testing the Items and Revising and publishing the Test.
- Unit-III: Reliability: Concept and Types. Validity: Concept and Types. Norms: Statistical Concepts, Types of Norms. Developmental Norms, Within Group Norms.
- Unit -IV: Application of Psychological Testing: Educational Setting, Counselling and Guidance , Clinical Setting and Organizational Setting

Books Recommended:

- ✓ Anastasi, A. & Urbina, S. (2002). *Psychological testing*. New Delhi: Pearson Education.
- ✓ Bhargava. M. (1971). *Aadhunik Manovigyani Parikshan Avam Mapan*. Agra: Bhargava Books.
- ✓ Kaplan, R.M. & Saccuzzo, D.P. (2007). *Psychological Testing*. Haryana: Thompson.
- ① Singh, A.K. (1986). *Tests, Measurements and Research Methods in Behavioural Sciences*. New Delhi: McGraw Hill
- ✓ Chaddha N.K. (2009). *Applied Psychometry*. New Delhi : Sage.
- ✓ Gregory, R.J. (2008). *Psychological Testing*. New Delhi: Pearson Education.

PSY D01 - Educational Psychology

- Unit-I: Introduction to Educational Psychology: Role of Educational Psychology, Learning and Thinking, Models and Measure of Effective Teaching, Diversity in Indian Society, Role of Research in Teaching.
- Unit-II: Learner Differences and Learning Needs: Intelligence, Multiple Intelligence, Measuring IQ, Learning and Thinking Styles, Students with Learning Challenges, Students who are gifted and talented.
- Unit-III: Teaching Every Student: Planning, Teaching approaches, Differentiated Instruction and Adaptive Teaching, Teachers Expectation, Cooperation Learning.
- Unit-IV: Culture, Teaching and Learning: Role of Socio Economic Status, Role of Ethnicity, Language Difference and Bilingualism, Multicultural Education, Gender, Gender bias and School Experience.

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