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Part - I

SYLLABUS FOR ENVIRONMENTAL STUDIES AND HUMAN RIGHTS
(Paper code-0828)

MM. 75

इन्वार्मेंटल साईंसेस के पाठ्यक्रम को स्नातक स्तर भाग-एक की कक्षाओं में विश्वविद्यालय अनुदान आयोग के निर्देशानुसार अनिवार्य रूप से शिक्षा सत्र 2003-2004 (परीक्षा 2004) से प्रभावशील किया गया है। स्वशासी महाविद्यालयों द्वारा भी अनिवार्य रूप से अंगीकृत किया जाएगा।

भाग 1, 2 एवं 3 में से किसी भी वर्ष में पर्यावरण प्रश्न-पत्र उत्तीर्ण करना अनिवार्य है। तभी उपाधि प्रदाय योग्य होगी।

पाठ्यक्रम 100 अंकों का होगा, जिसमें से 75 अंक सैद्धांतिक प्रश्नों पर होंगे एवं 25 अंक क्षेत्रीय कार्य (Field Work) पर्यावरण पर होंगे।

सैद्धांतिक प्रश्नों पर अंक - 75 (सभी प्रश्न इकाई आधार पर रहेंगे जिसमें विकल्प रहेगा)

- | | | |
|----------------------|---|--------|
| (अ) लघु प्रश्नोंत्तर | - | 25 अंक |
| (ब) निबंधात्मक | - | 50 अंक |

Field Work - 25 अंकों का मूल्यांकन आंतरिक मूल्यांकन पद्धति से कर विश्वविद्यालय को प्रेषित किया जाएगा। अभिलेखों की प्रायोगिक उत्तर पुस्तिकाओं के समान संबंधित महाविद्यालयों द्वारा सुरक्षित रखेंगे।

उपरोक्त पाठ्यक्रम से संबंधित परीक्षा का आयोजन वार्षिक परीक्षा के साथ किया जाएगा।

पर्यावरण विज्ञान विषय अनिवार्य विषय है, जिसमें अनुत्तीर्ण होने पर स्नातक स्तर भाग-एक के छात्र/छात्राओं को एक अन्य विषय के साथ पूरक की पात्रता होगी। पर्यावरण विज्ञान के सैद्धांतिक एवं फील्ड वर्क के संयुक्त रूप से 33 (तीस प्रतिशत) अंक उत्तीर्ण होने के लिए अनिवार्य होंगे।

स्नातक स्तर भाग-एक के समस्त नियमित/भूतपूर्व/अमहाविद्यालयीन छात्र/छात्राओं को अपना फील्ड वर्क सैद्धांतिक परीक्षा की समाप्ति के पश्चात् 10 (दस) दिनों के भीतर संबंधित महाविद्यालय/परीक्षा केंद्र में जमा करेंगे एवं महाविद्यालय के प्राचार्य/केंद्र अधिकांक, परीक्षकों की नियुक्ति के लिए अधिकृत रहेंगे तथा फील्ड वर्क जमा होने के सात दिनों के भीतर प्राप्त अंक विश्वविद्यालय को भेजेंगे।

HEMCHAND YADAV VISHWAVIDYALAYA, DURG (C.G.)

COURSE OF STUDIES FOR M.A. EXAMINATION IN SOCIOLOGY,
UNDER SEMESTER SYSTEM IN AFFILETED COLLEGES OF
DURG VISHWAVIDYALAYA, DURG (C.G.)

EFFECTIVE FROM THE ACADEMIC SESSION (2019-20)

M.A. Examination in Sociology shall be conducted in four semesters, each having 500 hundred marks, totalling to 2000 marks.

The detailed Course Structure Semester wise is mentioned below.

Sl. No.	Paper No.	Title	Marks		
A. FIRST SEMESTER:					
Sr. No.	Paper	Subject	I	T	Total
1	Paper-I/CC1	Classical Sociological Tradition	20	80	100
2	Paper-II/CC2	Philosophical and Conceptual Foundation of Research Methodology	20	80	100
3	Paper-III/CC3	Social Change in India	20	80	100
4	Paper-IV/CC4	Rural Sociology	20	80	100
5	Paper-V/P 1	Practical-I			100
B. SECOND SEMESTER					
6.	Paper-VI/CC5	Classical Sociological Thinkers	20	80	100
7.	Paper-VII/CC6	Quantitative Research Techniques in Sociology	20	80	100
8.	Paper-VIII/CC7	Sociology of Development	20	80	100
9.	Paper-IX/CC8	Indian Rural Society	20	80	100
10.	Paper-X/P2	Practical-II			100

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C. THIRD SEMESTER					
11	Paper- XI/CC9	Classical Sociological Theories	20	80	100
12	Paper- XII/CC10	Social Movements in India	20	80	100
13	Paper- XIII/CC11	Perspectives of Study to Indian Society	20	80	100
14	Paper- XIV/CC12	Industry and Society in India	20	80	100
15	Paper- XV/CC13	Criminology	20	80	100

D. FOURTH SEMESTER					
16	Paper- XVI/CC14	Modern Sociological Theories	20	80	100
17	Paper- XVII/CC15	Comparative Sociology	20	80	100
18	Paper- XVIII/CC16	Contemporary Issues in Industry	20	80	100
19	Paper- XIX/CC17	Criminology: Correctional administration	20	80	100
20	Paper- XX/P3	Project Report	-	-	100

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Paper No. X/P2 PRACTICAL-II

Marks-100

Practical based on Field Work & Preparation of tools

Questionnaire, Interview Schedule Preparation and Tabulation.

Scheme of Evaluation- 50% by Internal Examiner and rest 50% by Viva-Voce Examination evaluated both by the Internal and External Examiner.

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10-6-19

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THIRD SEMESTER

Paper No. XI/CC9

Marks-100

CLASSICAL SOCIOLOGICAL THEORIES

Unit-I: Positivism

- Origin and Basic Postulates
- Contributions of Comte
- Contributions of Durkheim
- Criticism

Unit-II: Functionalism

- Origin and Basic Postulates
- Contributions of Parsons
- Contribution of Merton
- Criticism

Unit-III: Conflict theory

- Contribution of L.A Coser
- Contributions of Karl Marx
- Contribution of Dahrendorf
- Criticism

Unit-IV: Structuralism

- Origin and Basic Postulates
- Contribution of Red Cliff Brown
- Contribution of Levistrauss
- Criticism

Unit-V: Exchange Theory

- Origin and Basic postulates
- Contribution of peter Blau
- Contribution of George Homans.
- Criticism

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Asan
10.06.2019

M. Senapati
10-6-19

CRIMINOLOGY

Marks-100

Unit-I: Conceptual and Theoretical Approaches

- a. Concept of crime Legal and Sociological,
- b. Crime Causes, Types of Crime
- c. Theories on Crime Classical and Positivism
- d. Sociological and Geographical

Unit-II: Type of Criminals and Crime

- a. Juvenile delinquency
- b. Women and Crime
- c. White collar crime
- d. Organised Crime

Unit-III: Changing Profile of Crime and Criminals;

- a. Corruption: Types, Causes, and Consequences.
- b. Cyber Crime: Causes, Prevention and Control
- c. Crime Against Women: Causes, Prevention and Control
- d. Crime Against Child labour: Causes, Prevention and Control

Unit-IV: Theories of Punishment

- a. Concept of punishment, types of punishment
- b. Retributive, Deterrent: Reformative Theory
- c. Probation and Parole
- d. Open Prison- Its Success and Failure

Unit-V: Terrorism

- a. Concept of Terrorism and Its Characteristics
- b. Origin of development Terrorism
- c. Terrorism in India
- d. Social and Legal Measures for Its Prevention and Control

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10/6/2019

Asan
10.06.2019

M. Senaraj
10.6.19

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Shabhash
10/6/2019

Asam
10.06.2019

M. Dewar
10-6-19

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10.06.2019

M. Dewang
10-6-19

SOCIAL MOVEMENTS IN INDIA

Unit-I: Nature and Types

- a. Characteristics
- b. Types
- c. Reasons
- d. Power Structure and Social Movements

Unit-II: Basis of Social Movement

- a. Class, Caste, Ethnicity and Gender
- b. Types of leadership and relationship between leaders and masses
- c. Political institution and social movement.
- d. Role of media in social movement.

Unit-III: Theoretical Perspectives

- a. Marxian and Post-Marxian
- b. Weberian Perspectives
- c. Structural-Functional
- d. Postmodernist

Unit-IV: Traditional Social Movements

- a. Labour and Trade Union
- b. Tribal
- c. Peasant
- d. Nationalist

Unit-V: New Social Movements

- a. Dalit
- b. Women
- c. Ethnic
- d. Environmental

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FOURTH SEMESTER

Paper No. XVI/CC14

Marks-100

MODERN SOCIOLOGICAL THEORIES

Unit-I: Symbolic Interactionism

- Origin and Basic Postulates
- Contributions of G.H. Mead
- Contribution of H. Blumer
- Criticism

Unit-II: Phenomenology

- Origin, Basic Postulates of Phenomenology
- Contributions of Schutz
- Contributions of Berger
- Criticism

Unit-III: Ethnomethodology

- Origin Basic postulates of Ethnomethodology
- Contribution of Garfinkel
- Contribution of Goffman
- Criticism

Unit-IV: Critical Theory

- Origin and Development
- Contributions of Adorno
- Contributions of Habermas
- Criticism

Unit-V: Post Modernism

- Origin and Development
- Contributions of Foucault
- Contributions of Derrida
- Criticism

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PERSPECTIVES OF STUDY TO INDIAN SOCIETY

Unit-I: Indological / Textual

- a. Approach of Study
- b. G.S. Ghurye
- c. Louis Dumont
- d. Criticism

Unit-II: Structural Functionlism

- a. Approach of Study
- b. M.N. Srinivas
- c. S.C. Dube
- d. Criticism

Unit-III: Marxism

- a. Approach of Study
- b. D.P.Mukharjee
- c. A.R. Desai
- d. Criticism

Unit-IV: Subaltern Perspective

- a. Approach of Study
- b. B.R. Ambedkar
- c. David Hardiman
- d. Criticism

Unit-V: Civilization

- a. Approach of study
- b. N.K. Bose
- c. Sujeet Sinha
- d. Criticism

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COMPARATIVE SOCIOLOGY

Unit-I: Historical and Social Context of Emergence of Sociology in the West

- a. Emergence of growth of Sociology in West
- b. Emergence of growth of Sociology in India
- c. Eurocentric Moorings Western Sociological Tradition
- d. Americanization of Sociology

Unit-II: Central Themes in Comparative sociology

- a. Modernity and Tradition
- b. Diversity and multy Culturalism
- c. Environment
- d. Globalization

Unit-III: Theoretical Concerns in Comparative sociology

- a. Problems of theoring in sociology
- b. Theoretical and Methodological approaches in sociology
- c. Policy issues: Formulation and Evolution
- d. new Trands of Morden Sociological Theory

Unit IV: Current Debates

- a. Contextituzalization
- b. Indianization
- c. Use of Native Categories
- d. Criticism.

Unit-V: Debate on "For Sociology of India"

- a. Sociology of India
- b. Sociology in India
- c. Sociology For India
- d. Criticism

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M. S. Wargu
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INDUSTRY AND SOCIETY IN INDIA

Unit-I: Industrial Sociology and Classical Sociological Tradition

- Classical Scientific Management
- Division of Labour
- Bureaucracy and Rationality
- Production Relations and Alienation

Unit-II: Industrial Organizations

- Formal and Informal Organizations, Structure and Function
- Line and Staff Organization
- Contemporary Organization Realities
- Personal Management

Unit-III: Problems through Industrialization process

- Family
- Stratification
- Habitat and Settlement
- Environmental

Unit-IV: Subjective Experience of Work

- Work Ethics, Work Value, Work Attitude and Work Process
- Motivation to Work.
- Work Satisfaction, Incentives and Its Effects
- Human Relation at work

Unit-V: Technological Change and Automation

- Technology and Social Structure in Industry
- Organizational Choice and Technological Change
- Resistance to Automation and Change
- Impact of Automation

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N. Dewangan
10-6-19

CONTEMPORARY ISSUES IN INDUSTRY

Unit-I: Industrial Relation

- a. Importance of Human Relations at work
- b. Conflict: Causes and Types, Resolution of Conflict
- c. Conciliation and Collective Bargaining
- d. Workers Participation in Management

Unit-II: Trade Union and Industrialization

- a. History of Trade Unionism in India
- b. Objectives and Functions
- c. ILO and Trade Unions in India
- d. Trade Unionism in Globalization

Unit-III: Industry and Society

- a. Impact of Industry on Family
- b. Impact of Industry on Stratification
- c. Industrialization and Migration
- d. Industrialization and Religion

Unit-IV: Industrialization in Third world Countries in the Era of Globalization

- a. FDI and Third World
- b. International Agencies: World Bank and Third world countries
- c. foreign Direct investment and third world
- d. Status of Industries in Third World Countries

Unit-V: Contemporary Issues

- a. Industrialization and Women Labour
- b. Industrialization and Child Labour
- c. Industrialization and Environment
- d. Problem of Industrialization in Developing Countries

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CRIMINOLOGY: CORRECTIONAL AND ADMINISTRATION

Unit-I: Roots of Correction to prevent Crime

- a. Socialization
- b. Family values
- c. Role of education
- d. Ethics

Unit-II: Correction and It's Forms

- a. Meaning and Significance of Correction; Prison Based and Community Based
- b. Correctional Programmes in Prison; History of Prison Reforms in India
- c. Correctional Programmes – Meditation and recreation
- d. After Care and Rehabilitation Programme.

Unit-III: Problem of Correctional Administration

- a. Antiquated jail manual and prison act
- b. Overcrowding; Lack of Inter Agency Co-Ordination among Police Prosecution, Judiciary and Prison
- c. Prison Offences
- d. Problem of Criminal Justice Administration

Unit-IV: Victimological Perspective

- a. Victim's Responsibility in Crime
- b. Violation of Prisoner's Human Rights
- c. Problems of Women Offenders.
- d. Compaction Victim's

Unit-V: Policing and Juliciaring

- a. Concept and Objectives of Police
- b. Types/ Role of Police
- c. Concept of Juliciaring
- d. Role of Juliciaring

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Asankh
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M. S. Wargh
10-6-19

Paper No.-XX/P3

Marks-100

PROJECT REPORT

On Rural and Urban Problems

Scheme of Evaluation- 50% by Internal Examiner and rest 50%
by Viva-Voce Examination evaluated both by the Internal and
External Examiner.

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10/6/2019

Asank
10.06.2019

M. Dewang
10-6-19

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Shabbash
10/6/2019

Ashish
10.06.2019

M. Senaraj
10-6-19

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BA-III अंग्रेजी

GEOGRAPHY

- The B.A. Part III Examination in Geography will be of 150 marks. There will be two theory papers and one practical each of 50 marks as follows:
Paper - I Resource and Environment
Paper - II Geography of India (with special reference to Chhattisgarh)
Paper - III Practical Geography
- Each theory paper shall be of three hours' duration.
- Candidates will be required to pass separately in theory and practical examinations.
- Each theory paper is divided into five units.
- (a) In the practical examination the following shall be allotment of time and marks.

i) Lab work	-	20 marks	up to three hours
ii) Survey	-	10 marks	Two hours
iii) <u>Field Report</u>	-	<u>10 marks</u>	
iv) <u>Practical Record and viva-voce</u>	-	<u>10 marks</u>	
- (b) The external and internal examiners shall jointly submit marks.
- (c) The candidates shall present at the time of the practical examination their practical records regularly signed by the teachers concerned.

PAPER - I

RESOURCES AND ENVIRONMENT

M.M. 50

(Paper Code-0248)

A. Resources

UNIT-I Meaning, nature and components of resources and environment. Resources and environment interface. Classification of resources : renewable and nonrenewable : biotic (forests, wild-life, live-stock, fisheries, agricultural crops) and abiotic (land, water, mineral)

UNIT-II Distribution and utilization of water mineral and energy resources, their economic and environmental significance and conservation. Types and distribution of forests, fauna and fisheries, their economic, and environmental significance and conservation. Major soil types and their distribution; problems of soil erosion and soil conservation.

UNIT-III Number, density, growth and distribution of population; population pressure and resource utilization.

B. Environment

UNIT-IV Classification of environment: Natural and Human. Man environment interrelations with respect to population size, types of economy and technology; exploitation of natural resources and environmental hazards.

UNIT-V Emerging environmental issues - population explosion; food security; deforestation; global warming, conservation of bio-diversity; sustainable development.

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PAPER - II
GEOGRAPHY OF INDIA
(With Special reference to Chhattisgarh)
(Paper Code-0249)

M.M. 50

UNIT - I Physical features : Structure, Relief and Physiographic regions, Drainage, Climate-origin and mechanism of monsoon, and regional and seasonal variation.

UNIT-II Natural resources : Soils - types, their distribution and characteristics. Water resources (major irrigation and hydel power projects); Forests-types, distribution, economic significance and conservation. Mineral and Power resources-Iron-ore, Manganese, Copper, Coal, Petroleum and Natural gas. Non conventional sources of energy.

UNIT-III Cultural Features : Agriculture - Major crops, impact of green revolution and agricultural regions; Industries - Iron and steel, Cotton Textile, Cement, Sugar, Population - growth, density and distribution. Transport, Foreign Trade.

UNIT-IV Chhattisgarh :

Physical Features : Structure, Physiography, Drainage, Climate, Soils, Natural vegetation, Water resources - availability and development. Mineral and Power resources, Power projects.

UNIT-V Chhattisgarh :

Cultural features : Agriculture, Industries, Population - growth, distribution and density, social groups, literacy and sex-ratio, urbanisation. Major tribes-their habitat, economy and society. Transport and Tourism.

SUGGESTED READING :

1. Sharma, T.C. and Coutinho, O. : Economic and Commercial Geography of India, Vikas Pub. House, New Delhi, 1988.
2. Singh, R.L. (Ed.) : India : A regional Geography, Nat. Geog. Soc. of India, Varanasi, 1971.
3. Spate, O.H.K. and Learmonth, A.T.A. India and Pakistan : A General and Regional Geography, Methuen & Co. Ltd. London, 1967.
4. Tiwari, R.C. : Geography of India, Prayag Pustak Bhawan, Allahabad, 2003.
5. प्रमीला कुमार (सम्पादक) : मध्यदेश का प्रादेशिक भूगोल, म.प्र. हिन्दी ग्रंथ अकादमी, भोपाल
6. अग्रवाल प्रमचंद : भारत का भौतिक भूगोल

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PAPER - III
PRACTICAL GEOGRAPHY

M.M. 50

- UNIT-I Band graph, Hythergraph and Climograph. Square root, cube-root and vernier scales.
- UNIT-II Map Projection : Conical Projection : one standard parallel, two standard parallels, Bonne's, Ployconic. Polar Zenithal Projections; Gnomonic, Stereographic and Orthographic.
- UNIT-III Study and Interpretation of Indian topographical sheets : classification and numbering system, Interpretation of topographical sheets with respect to cultural and physical features.
- UNIT-IV Surveying - Plane Table Survey, Basic Principles of plane table surveying, Plane table survey including intersection and resection.
- UNIT-V Importance of field work in Geography. Field work and field report : physical, social and economic survey of a micro-region.
-

BOTANY

PAPER-I (Paper Code-0915)

PLANT PHYSIOLOGY, BIOCHEMISTRY AND BIOTECHNOLOGY

M.M. : 50

- UNIT-I** Plant-water relations : Importance of water to plant life ; physical properties of water; diffusion and osmosis; absorption, transport of water and transpiration ; physiology of stomata.
Mineral nutrition : Essential macro and micro-elements and their role ; mineral uptake; deficiency and toxicity symptoms.
- UNIT-II** Transport of organic substances : Mechanism of phloem transport ; source-sink relationship ; factors affecting translocation.
Basic of enzymology : Discovery and nomenclature ; characteristics of enzymes ; concept of holoenzyme apoenzyme, coenzyme and cofactors ; regulation of enzyme activity, mechanism of action.
Photosynthesis : Significance ; historical aspects ; photosynthetic pigments ; action spectra and enhancement effects ; concept of two photosystems; Z-scheme ; photo-phosphorylation ; Calvin cycle ; C4 pathway ; CAM plants ; photorespiration.
- UNIT-III** Respiration : ATP - the biological energy currency ; aerobic and anaerobic respiration; Kreb's cycle, electron transport mechanism (chemi-osmotic theory) ; redox potential; oxidative phosphorylation ; pentose phosphate pathway.
Nitrogen and lipid metabolism : Biology of nitrogen fixation ; importance of nitrate reductase and its regulations ; ammonium assimilation ; structure and function of lipids; fatty acid biosynthesis ; Beta-oxidation ; saturated and unsaturated fatty acids; storage and mobilization of fatty acids.
- UNIT-IV** Growth and development : Definitions ; phases of growth and development ; kinetics of growth, seed dormancy, seed germination and factors of their regulation ; plant movements ; the concept of photoperiodism ; physiology of flowering ; florigen concept; biological clocks ; physiology of senescence, fruit ripening ; plant hormones auxins, gibberellins, cytokinins, abscisic acid and ethylene, history of their discovery, biosynthesis and mechanism of action; photomorphogenesis ; phytochromes and cryptochromes, their discovery, physiological role and mechanism of action.
- UNIT-IV** Genetic engineering : Tools and techniques of recombinant DNA technology ; cloning vectors ; genomic and cDNA library ; transposable elements ; techniques of gene mapping and chromosome walking.
Biotechnology : Functional definition ; basic aspects of plant tissue culture ; cellular totipotency, differentiation and morphogenesis ; biology of *Agrobacterium* ; vectors for gene delivery and marker genes ; salient achievements in crop biotechnology.

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Suggested Laboratory Exercises (Ecology)

1. To determine minimum number of quadrats required for reliable estimate of biomass in grasslands.
2. To study the frequency of herbaceous species in grassland and to compare the frequency distribution with Raunkiaer's Standard Frequency Diagram.
3. To estimate importance Value Index for grassland species on the basis of relative frequency, relative density and relative biomass in protected and grazed grassland.
4. To measure the vegetation cover of grassland through point frame method.
5. To measure the aboveground plant biomass in a grassland.
6. To determine Kemp's constant for dicot and monocot leaves and to estimate the leaf area index of a grassland community.
7. To determine diversity indices (richness, Simpson, Shannon-Wiener) in grazed and protected grassland.
8. To estimate bulk density and porosity of grassland and woodland soils.
9. To determine moisture content and water holding capacity of grassland and woodland soil.
10. To study the vegetation structure through profile diagram.
11. To estimate transparency, pH and temperature of different water bodies.
12. To measure dissolved oxygen content in polluted and unpolluted water samples.
13. To estimate salinity of different water samples.
14. To determine the percent leaf area injury of different leaf samples collected around polluted sites.
15. To estimate dust holding capacity of the leaves of different plant species.

PRACTICAL

Suggested Laboratory Exercises (for Utilization of Plants)

1. Food Plants : Study of the morphology, structure and simple microchemical tests of the food storing tissues in rice, wheat, maize, potato and sugarcane, Microscopic examination of starch in these plants (excepting sugarcane)
 2. Fibres : Study of cotton flowers, sectioning of the cotton ovules/developing seeds to trace the origin and development of cotton fibres. Microscopic study of cotton and test for cellulose, Sectioning and staining of jute stem to show the location and development of fibres. Microscopic structure. Test for lignocellulose.
 3. Vegetable oils : Study of hand sections of groundnut, mustard and coconut and staining of oil droplets by Sudan III and Sudan Black.
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PAPER-II
(Paper Code-0916)

ECOLOGY AND UTILIZATION OF PLANTS M.M. : 50

- UNIT-I** Plants and environment : Atmosphere (gaseous composition), water (properties of water cycle), light (global radiation, photosynthetically active radiation), temperature, soil (development, soil profiles, physico-chemical properties), and biota.
Morphological, anatomical and physiological responses of plants to water (hydro-phytes and xerophytes), temperature (thermoperiodicity), light (photoperiodism, heliophytes and sciophytes) and salinity.
- UNIT-II** Community Ecology : Community characteristics, frequency, density, cover, life forms biological spectrum ; ecological succession.
Ecosystems : Structure, abiotic and biotic components ; food chain, food web, ecological pyramids, energy flow ; biogeochemical cycles of carbon, nitrogen and phosphorus.
- UNIT-III** Population ecology : Growth curves ; ecotypes ; ecads.
Biogeographical regions of India.
Vegetation types of India : Forests and grasslands.
- UNIT-IV** Utilization of Plants
Food plants : Rice, wheat, maize, potato, sugercane.
Fibres : Cotton and jute.
Vegetable oils : Groundnut, mustard and coconut
General account of sources of firewood, timber and bamboos.
- UNIT-V** Spices : General account.
Medicinal plants : General account
Beverages : Tea and coffee.
Rubber.

PRACTICAL SCHEME

	M.M. 50
01. Physiology	08
02. Ecology	08
03. Utilization of Plants	05
04. Biochemistry / Biotechnology	05
05. Spotting (1-5 spots)	10
06. <u>Project work</u>	04
07. Viva V.	05
08. Sessional	05
	<u>50</u>

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4. Field visits : To study sources of firewood (10 plants), timber-yielding trees (10 trees) and bamboos. A list to be prepared mentioning special features.
5. Spices : Examine black pepper, cloves, cinnamon (hand sections) and opened fruits of cardamom and describe them briefly.
6. Preparation of an illustrated inventory of 10 medicinal plants used in indigenous systems of medicine or allopathy : Write their botanical and common names, parts used and disease/disorders for which they are prescribed.
7. Beverages : Cut Sections of boiled coffee beans and tea leaves to study the characteristic structural features.
8. Rubber : Collect illustrative materials of *Hevea brasillensis* ; morphology of the plant and tapping practices, history of rubber. List the many uses of rubber.

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Suggested Laboratory Exercises

1. To study the permeability of plasma membrane using different concentrations of organicsolvents.
2. To study the effect of temperature on permeability of plasma membrane.
3. To prepare the standard curve of protein and determine the protein content in unknown samples.
4. To study the enzyme activity of catalase and peroxidase as influenced by pH and temperature.
5. Comparison of the rate of respiration of various plant parts.
6. Separation of chloroplast pigment by solvents method.
7. Determining the osmotic potential of vacuolar sap by plsmolytic method.
8. Determining the water potential of any tuber.
9. Separation of amino acids in a mixtue by paper chromatography and their identification by comparison with standards.
10. Bioassay of auxin, cytokinin, GA, ABA and ethylene using appropriate plant material.
11. Demonstration of the technique of micropropagation by using different explants, e.g. axillary buds, shoot meristems.
12. Demonstration of the technique of anther culture.
13. Isolation of protoplasts from different tissues using commercially available enzymes.
14. Demonstration of root and shoot formation from the apical and basal portion of stem segments in liquid medium containing different hormones.

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M.A. Political Science

Semester-I and semester-II

PAPER	SEMESTER-I	MARKS		SEMESTER-II	MARKS	
		Theory	Internal		Theory	Internal
I	भारतीय राजनीतिक विचार (Indian Political Thought)	80	20	पश्चात्त्य राजनीतिक विचार (Western Political Thought)	80	20
II	भारतीय शासन व्यवस्था (Indian Govt. and politics)	80	20	भारत में राज्यों की राजनीति (State Politics in India)	80	20
III	तुलनात्मक राजनीति (Comparative Politics)	80	20	विकासशील देशों की तुलनात्मक राजनीति (Comparative Politics of Development Countries)	80	20
IV	अंतर्राष्ट्रीय संगठन (International Organization)	80	20	भारत की विदेश नीति (Indian Foreign Policy)	80	20
Total=400		<i>Developing</i>		Total=400		

M.A. Political Science

Semester III and M.A. Semester IV

PAPER	SEMESTER-III	MARKS		SEMESTER-IV	MARKS	
		Theory	Internal		Theory	Internal
I	अंतर्राष्ट्रीय राजनीति के सिद्धांत (Principal of International Politics)	80	20	अंतर्राष्ट्रीय राजनीति के समकालीन मुद्दे (contemporary issues of International Politics)	80	20
II	लोकप्रशासन भाग-1 (Public Administration Part-I)	80	20	लोकप्रशासन भाग-2 (Public Administration Part-II)	80	20
III	शोध प्रविधि भाग-1 (Research Methodology Part-I)	80	20	शोध प्रविधि भाग-2 (Research Methodology Part-II)	80	20
IV	छत्तीसगढ़ का शासन एवं राजनीति (Govt. and Politics of Chhattisgarh)	80	20	छत्तीसगढ़ का राजनीतिक इतिहास (Political History of Chhattisgarh)	80	20
Total=400				Project work VIVA-VOCE		
				Total=500		



 5/11/18
 5/11/18
 6/7/19

नियमावली-

1. उपर्युक्त समस्त प्रश्न पत्र अनिवार्य होंगे।
2. प्रत्येक प्रश्न पत्र में (सभी सेमेस्टर में) सैद्धान्तिक परीक्षामें 80 पूर्णांक होगा और 20 अंको का आन्तरिक मूल्यांकन होगा। इस प्रकार सभी प्रश्न पत्र में पूर्णांक 100 होगा।
3. प्रत्येक प्रश्न पत्र में आन्तरिक मूल्यांकन होगा की दो परीक्षाएं होगी जिसके सर्वोच्च अंक विश्वविद्यालय का प्रेषित किए जाएंगे।
4. प्रथम, द्वितीय और तृतीय सेमेस्टर में पूर्णांक 400 होगा। चतुर्थ सेमेस्टर में पूर्णांक 500 होगा।
5. एम. ए. चतुर्थ सेमेस्टर में 100 अंको की मौखिक परीक्षा होगी जिसमें 50 अंक परियोजना कार्य पर होंगे और 50 अंको की मौखिक परीक्षा होगी।
6. परियोजना कार्य कौशल विकास, रोजगार मुख्य एव मतदान व्यवहार, ग्रामीण विकास देश के महापुरुष, प्रमुख राजनीतिज्ञ, राष्ट्रपति, प्रधानमंत्री, छत्तीसगढ़ की राजनीति और शासन व्यवस्था पर आधारित होगा।
7. इस प्रकार एम. ए. राजनीति विज्ञान में कुल पूर्णांक 1700 होगा।
8. प्रत्येक प्रश्न पत्र 4 इकाइयों में विभाजित होगा।



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B.Sc.-III

PAPER- II (BOTANY)

(GENETICS, MOLECULAR BIOLOGY, BIOTECHNOLOGY AND BIOCHEMISTRY)

UNIT-I

Cell and cell organelles, organization and morphology of chromosomes, giant chromosomes, cell division, Mendel's laws, gene interactions, linkage and crossing over, chromosomal aberration, polyploidy, sex linked inheritance, sex determination, cytoplasmic inheritance, gene concept, cytron muton, recomb.

UNIT-II

Nucleic acids, Structure and forms of DNA and RNA, DNA/RNA as genetic material, replication of DNA, biochemical and molecular basis of mutation, genetic code and its properties, mechanism of transcription and translation in prokaryotes, regulation of gene expression, Operon model.

UNIT-III

Recombinant DNA, Enzymes in recombinant DNA technology, cloning vectors (Plasmid, Bacteriophages, Cosmids, Phagemids), gene cloning, PCR, Application of Biotechnology; G.M.Plants, Monoclonal antibodies, DNA finger printing

UNIT-IV

Protein: Chemical composition, primary, secondary and tertiary structure of Proteins.
Carbohydrate: general account of monosaccharides, disaccharids and Polysaccharides
Fat: Structure and properties of fats and fatty acids, synthesis and breakdown.

UNIT-V

ENZYMES: Nomenclature and classification, components of enzymes, theories of enzyme action, enzyme kinetics (Michaelis-Menten constant), allosteric enzymes, isozymes, Abzymes, Ribozymes, factors affecting enzyme activity.

Books Recommended:

Nelson, DL, Cox, MM, Lehninger Principles of Biochemistry, W.H. Freeman and Company, New York, USA.

Cooper, GM, The Cell: A Molecular Approach, ASM Press & Sunderland, Washington, D.C. Sinauer Associates, MA.

Singh BD, Fundamental of Genetics, Kalyani Publication

Singh BD, Genetics, Kalyani Publication

Gupta, PK, Cell and Molecular Biology, Rastogi Publications, Meerut

Singh, BD, Biotechnology: Expanding Horizons, Kalyani Publications

Gupta, PK, Elements of Plant Biotechnology, Rastogi Publications, Meerut

Gupta, SN, concepts of Biochemistry, Rastogi Publications, Meeru

Jain, JL, Jain S, Jain, N, Fundamentals of Biochemistry, S Chand Publishing, New Delhi

B.Sc.- III (Botany)

Practical

1. Study of host parasite relationship of plant diseases listed above.
2. Demonstration of preparation of Czapek's Dox medium and potato dextrose agar medium. sterilization of culture medium and pouring
3. Inoculation in culture tubes and petriplates
4. Gram Staining
5. Microscopic examination of Curd.
6. Study of plant diseases as listed in the theory paper.
7. Biochemical test of carbohydrate and protein
8. Instrumentation techniques

PRACTICAL SCHEME

TIME: 4 Hrs.

1. Plant Disease/Symptoms 10
2. Instrumentation techniques 05
3. Staining of Microbes 05
4. Tissue Culture techniques 05
5. Spouting 10
6. Project Work/ Field Study 05
7. Viva-Voce 05
8. Sessional 05

Yash *Yash*

Hemchand Yadav Vishwavidyala, Durg (C.G.)

Zoology
B.Sc. Part III (2021-22)

Paper-I
ECOLOGICAL, ENVIRONMENTAL BIOLOGY, TOXICOLOGY, MICROBIOLOGY AND
MEDICAL ZOOLOGY

Unit: I (Ecology)

- Aims and scopes of ecology
- Major ecosystems of the world-Brief introduction
- Population- Characteristics and regulation of densities
- Communities and ecosystem
- Bio-geo-chemical cycles
- Air & water pollution
- Ecological succession

Unit: II (Environmental Biology)

- Laws of limiting factor
- Food chain in fresh water ecosystem
- Energy flow in ecosystem- Trophic levels
- Conservation of natural resources
- Environmental impact assessment

Unit: III (Toxicology)

- Definition and classification of Toxicants
- Basic Concept of toxicology
- Principal of systematic toxicology
- Heavy metal Toxicity (Arsenic, Mercury, Lead, Cadmium)
- Animal poisons- snake venoms, scorpions & bee poisoning
- Food poisoning

Unit: IV (Microbiology)

- General and applied microbiology
- Microbiology of domestic water and sewage
- Microbiology of milk & milk products
- Industrial microbiology- fermentation process, production of penicillin, alcoholic beverages, bioleaching

Unit: V (Medical Zoology)

- Brief introduction to pathogenic microorganisms, Rickettsia, Sporozoaes, AIDS and Typhoid
- Brief account of life history & pathogenesis of the following pathogens with reference to man: protozoans & treatment
- Pathogenic protozoan's- Entamoeba, Trypanosoma & Plasmodium
- Pathogenic helminthes- Schistosoma
- Nematode pathogenic parasites of man
- Vector insects

Zoology
B.Sc. Part III (2021-22)
Paper II

GENETICS, CELL PHYSIOLOGY, BIOCHEMISTRY, BIOTECHNOLOGY AND
BIOTECHNIQUES

Unit: I (Genetics)

- Linkage & linkage maps, Sex Determination and Sex Linkage
- Gene interaction- Incomplete dominance & Codominance, Supplementary gene, Complementary gene, Epistasis Lethal gene, Pleiotropic gene and multiple alleles
- Mutation: Gene and chromosomal mutation
- Human genetics: chromosomal alterations: Down, Edward, Patau, Turner and Klinefelter Syndrome Single gene disorders: Alkaptonuria, Phenylketonuria, Sickle cell anemia, albinism and colour blindness

Unit: II (Cell Physiology)

- General idea about pH & buffer
- Transport across membrane: Diffusion and Osmosis
- Active transport in mitochondria & endoplasmic reticulum
- Enzymes-classification and Action

Unit: III (Biochemistry)

- Amino acids & peptides- Basic structure & biological function
- Carbohydrates & its metabolism- Glycolysis: Gluconeogenesis; Glycolysis; Glycogenolysis; Coxi-cycle
- Lipid metabolism- Oxidation of glycerol; Oxidation of fatty acids
- Protein Catabolism- Deamination, transamination, transmethylation

Unit: IV (Biotechnology)

- Application of Biotechnology
- Recombinant DNA & Gene cloning
- Cloned genes & other tools of biotechnology (Tissue culture, Hybridoma, Transgenic Animals and Gene library)

Unit: V (Biotechniques)

1. Principles & techniques about the following
 - (i) pH meter
 - (ii) Colorimeter
 - (iii) Microscopy- Light microscopes: Compound, Phase contrast & Electron microscopes
 - (iv) Centrifuge
- (V) Separation of biomolecules by chromatography & electrophoresis

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