



शहीद महेन्द्र कर्मा विश्वविद्यालय, बस्तर, जगदलपुर (छ.ग.)

**SHAHEED MAHENDRA KARMA VISHWAVIDYALAYA, BASTAR
JAGDALPUR (C.G.)**

**SYLLABUS
B.A. PART-III
SESSION 2021-22**

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B.A./ B.Sc. Part - III
GEOGRAPHY
PAPER - III
PRACTICAL GEOGRAPHY

Max. Marks: 50

SECTION-A

MAP READINGS AND INTERPRETATION

(M.M. 20)

- UNIT-I** Graphical Representation: Band graph, Climograph, Square root, Cube-root.
- UNIT-II** Topographical Sheets: Classification and numbering system (National and International), Interpretation of Topographical Sheets with respect to cultural and physical features.
- UNIT-III** Satellite Imageries: Describing the Marginal Information, Image interpretation: Visual Methods –Landuse /Land cover Mapping. Use and Application of GPS.

SECTION B

SURVEYING AND FIELD REPORT

(M.M.20)

- UNIT-IV** Surveying: Plane Table Survey, Basic Principles of plane table surveying, Plane table survey including intersection and resection.
- UNIT-V** Field work and field report: physical, social and economic survey of a micro-region.

PRACTICAL RECORD AND VIVA VOCE

(M.M.10)

BOOKS RECOMMENDED:

1. Archer, J.E. and Dalton, T.H. (1968): Field Work in Geography. William Clowes and Sons Ltd. London and Beccles.
2. Bolton, T. and Newbury, P.A. (1968): Geography through Fieldwork. Brandford Press, London.
3. Campell, J. B. (2003): Introduction to Remote Sensing. 4th edition. Taylor and Francis, London.
4. Chanel, D. D. (2004): Remote Sensing and Geographical Information System(in Hindi), Sharda Pustak Bhawan, Allahabad
5. Cracknell, A. and Ladson, H. (1990): Remote Sensing Year Book. Taylor and Francis, London.
6. Curran, P.J. (1985): Principles of Remote Sensing. Longman, London.
7. Davis, R.E. and Foote, F.S. (1953): Surveying, 4th edition, McGraw Hill Publication, New York
8. Deekshatulu, B.L. and Rajan, Y.S. (ed.) (1984): Remote Sensing. Indian Academy of Science, Bangalore.
9. Floyd, F. and Sabins, Jr. (1986): Remote Sensing: Principles and Interpretation. W.H. Freeman, New York.
10. Gautam, N.C. and Radhaswamy, V. (2004). Land Use/ Land Cover and Management Practices in India. B.S. Publication., Hyderabad.
11. Jensen, J.R. (2004): Remote Sensing of the Environment: An Earth Resource Perspective. Prentice-Hall, Englewood Cliffs, New Jersey. Indian reprint available.
12. Jones, P.A.(1968): Fieldwork in Geography, Longmans, Green and Company Ltd., First Publication, London
13. Kanetker, T.P. and Kulkarni, S.V.(1967): Surveying and Leveling, Vol I and II V.G. Prakashan,

उरीशः
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राजसकीय महाविद्यालय भैरमगढ़
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UNIT-I THE MULTI DISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES

Definition, Scope and Importance

Natural Resources:

Renewable and Nonrenewable Resources :

Natural resources and associated problems.

- (a) Forest resources: Use and over-exploitation, deforestation, Case Studies, Timber extraction, mining, dams and their effects on forests and tribal people.
- (b) Water resources: Use and over-utilization of surface and ground water, floods drought, conflicts over water, dams benefits and problems.
- (c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources. Case studies.
- (d) food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, Case studies.
- (e) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources. Case studies.
- (f) Land resources: Land as a resource, land degradation, man induced landslides soil erosion and desertification.
 - Role of an individual in conservation of natural resources.
 - Equitable use of resources for sustainable life-styles.

UNIT-II ECOSYSTEM

Concept, of an ecosystems.

Structure and Function of and 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.
 - b. Grassland ecosystem
 - c. Desert ecosystem
 - d. Aquatic ecosystems (Ponds, streams, lakes, rivers, oceans, estuaries)

UNIT – III Biodiversity and its Conservation

- Introduction – Definition : genetic, species and ecosystem diversity.
- Biogeographical classification of India.
- Value of biodiversity : consumptive use, productive use, social, ethical, aesthetic and option values.
- Biodiversity at global, national and local levels.
- India as mega diversity nation.”
- Hot spots of biodiversity
- Threats to biodiversity : habitat loss, poaching of wildlife, man/wildlife conflicts.
- Endangered and endemic species of india.
- Conservation of biodiversity : In situ and Ex-situ conservation of biodiversity

UNIT-IV Environmental Pollution

Definition

- Causes, effects and control measures of
 - a. Air pollution
 - b. Water pollution
 - c. soil pollution
 - d. Marine pollution
 - e. Noise 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.

Human Population and the Environment


- population growth, variation among nation,
- population explosion - Family Welfare programme.
- Environment and human health.
- Human Rights.

UNIT - V Social Issues and the Environment

- 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 solutions.
- Climate change, global warming, acid rain, ozone Layer depletion nuclear accidents and holocaust Case studies.
- Wasteland reclamation.
- Consumerism and Waste products. Environment Protection Act
- Air (Prevention and Control of pollution) Act.
- Water (Prevention and Control of pollution) Act.
- Wildlife protection Act.
- Forest Conservation Act.
- Issues involved in enforcement of Environment legislation.
- public awareness.
- Value Education
- HIV/AIDS
- Women and Child Welfare.
- Role of Information Technology in Environment and Human Health.
- Case Studies.

FIELD WORK

- visit to a local area to document environmental assets- river/forest/grassland/hill/mountain.
- visit to local polluted site : urban/Rural/Industrial/Agriculture. Study of common plants, insects, birds.
- Study of simple ecosystems-pond, river, hill slopes. etc. (Field work Equal to 5 lecture Hours)


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