

BINOD BIHARI MAHTO KOYALANCHAL UNIVERSITY, DHANBAD
FOUR YEAR UNDERGRADUATE PROGRAMME

SEMESTER III

COMMON COURSE (CC-7) - ENVIRONMENTAL STUDIES

F.M : 100

Total Credits: 3

- There will be two groups Group A and Group B.
- Group A will be compulsory questions. Q.1 will be very short answer types/ multiple choice questions carrying 1 marks each (10x1). Q.2 and Q.3 will be of short answer type carrying 5 marks each. (5x2).
- Answer four out of six questions subjective / descriptive questions given in group B (4x20).
- Answer in your own words as far as practicable.
- Answer all sub parts of a question at one place.
- Numbers in right indicates full marks of the questions.

Unit I: Multidisciplinary nature of Environmental Studies & Ecosystem

- 1.1 Definition, Scope and Importance
- 1.2 Need for public Awareness
- 1.3 Concept of Ecosystem: Structure and function of Ecosystem
- 1.4 Producers, Consumers, and Decomposers
- 1.5 Energy flow in ecosystem
- 1.6 Food Chain, Food web, Trophic levels and ecological pyramids
- 1.7 Ecological Succession

Unit II: Natural Resources

- 2.1 Renewable and Non- renewable Resources: definition and scope
- 2.2 Forest Resources: Use and Exploitation
- 2.3 Water Resources: Use and exploitation of groundwater and surface-water
- 2.4 Mineral Resources: Use and exploitation
- 2.5 Energy Resources: Growing energy needs, Renewable and non-renewable energy resources, use and of alternative energy resources
- 2.6 Land Resources: Land as a resource, land degradation, soil erosion
- 2.7 Role of individual in conservation of natural resources

Unit III: Biodiversity and its Conservation

- 3.1 Introduction: Definition: Genetic, Species and ecosystem diversity
- 3.2 Biogeographical Classification of India
- 3.3 Value of Biodiversity
- 3.4 Biodiversity at global, national and local levels
- 3.5 India as a mega diversity nation
- 3.6 Hotspots of Biodiversity of India
- 3.7 Threats to Biodiversity
- 3.8 Endangered and Endemic species of India
- 3.9 Conservation of Biodiversity : In-situ and Ex-Situ Conservation

Handwritten signatures and notes:
Dr. Si. (crossed out)
Kud
Dad
Sudhakar
Anjali Kumar
Mantappa ch. K. S. Rao
Nishu

Unit IV: Environmental Pollution

- 4.1 Cause, Effects and Control measures of : a. Air pollution, b. Water Pollution, c. Soil Pollution, d. Soil Pollution, e. Marine Pollution, f. Noise Pollution
- 4.2 Solid Waste management
- 4.3 Wastewater Treatment and Management
- 4.4 Role of Individual in prevention of Pollution

Unit V: Social Issues & Environment

- 5.1 From Unsustainable to Sustainable Environment
- 5.2 Urban Problems: Waste Disposal, Over -crowding, Deforestation
- 5.3 Water Conservation: Rainwater Harvesting, Watershed management
- 5.4 Climate Change, Global warming, Acid Rain, Ozone layer Depletion, Nuclear accidents
- 5.5 Environmental Protection Act,1986
- 5.6 Public awareness

(Small handwritten mark)

(Handwritten signatures and notes)

Handwritten signatures and notes are present at the bottom of the page, including names like "Rupin Malik", "Kul", "S. Nambal", "Behul", "Indrajit", "Arshad", "Arshad Ali", and "Arshad".