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Code No: 123AF

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech II Year I Semester Examinations, November/December - 2016

ENVIRONMENTAL STUDIES

(Common to ME, AE, MIE, MSNT)

Time: 3 Hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit.

Each question carries 10 marks and may have a, b, c as sub questions.

## PART-A

(25 Marks)

- 1.a) Briefly write the importance of Ecosystems. [2]
- b) Describe the Food Chains and Food Webs. [3]
- c) Classify the types of Mineral Resources. [2]
- d) What are the Non Timber Forest Products? [3]
- e) Write the Medicinal Values of Biodiversity. [2]
- f) Briefly explain the Causes for Habitat loss. [3]
- g) List the Major Sources of Soil Pollution. [2]
- h) What are the Ozone Depleting Substances? [3]
- i) Give a brief Note on Forest and Wildlife Act. [2]
- j) Explain the concept of Ecological Foot Print. [3]

## PART-B

(50Marks)

- 2.a) Explain various types of Energy Flow Models in the Ecosystem.
  - b) Give an account on Ecosystem types and Diversity with examples. [5+5]
- OR
- 3.a) Write the importance of Ecosystem Services and Values.
  - b) Describe the field methods for Quantification of Vegetation. [5+5]
- 4.a) Summarize the Benefits and Problems Associated with Larger Dams.
  - b) What are the environmental effects of Mineral Resources Extraction? [5+5]
- OR
- 5.a) Write the importance of Land Resources and Utilization Patterns.
  - b) Explain a case study on usage of Alternative Energy Resources. [5+5]
- 6.a) Justify India as a Mega biodiversity Nation with Flora and Fauna.
  - b) Give an account on the consumptive values of Biodiversity. [5+5]
- OR
- 7.a) Write the aims and silent features of National Biodiversity Act.
  - b) Discuss the causes of Man-Wildlife Conflicts in India. [5+5]

8. What are the sources and types of Water Pollution? Give an account on Noise Pollution and Health Hazards. [10]

OR

- 9.a) Write an account on Municipal Solid Waste Management.  
b) Analyze the impacts of climate change on Human Environment. [5+5]

10.a) Give an account Mitigation of Hazardous Waste Materials.  
b) Describe the methods for process of Biomedical Waste. [5+5]

OR

- 11.a) Explain the concept of Environmental Management Plan (EMP).  
b) What are the strategies adopted for Risk Assessment Analysis? [5+5]

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