

Code No: 113AF

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech II Year I Semester Examinations, November - 2015

ENVIRONMENTAL STUDIES

(Common to ME, CHEM, AE, MIE, MSNT, AGE)

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) Why are green plants regarded as producers? [2M]
- b) What is Biomagnification? [3M]
- c) Why are fossil fuels regarded as non-renewable? [2M]
- d) Write few Environmental effects of mining. [3M]
- e) Define the term biodiversity. [2M]
- f) What is a Sanctuary? [3M]
- g) What is meant by desertification? [2M]
- h) Give the drinking water quality standards for Fluorides, Nitrates and Iron. [3M]
- i) Define the term Water Pollution. [2M]
- j) What is sustainable development? [3M]

**PART-B****[50 Marks]**

- 2.a) Describe the structure of forest ecosystem.
  - b) With neat sketch, describe carbon cycle. [5+5]
- OR**
- 3.a) Give the classification of ecosystems.
  - b) What are ecological pyramids? [5+5]
- 4.a) What are the fresh water sources? Describe.
  - b) Write the benefits and problems associated with dams. [5+5]
- OR**
5. Write the merits and demerits associated with:
    - a) Solar Energy and
    - b) Wind Energy. [5+5]
- 6.a) What is meant by species, genetic and ecosystem diversity?
  - b) Write the values of biodiversity. [5+5]
- OR**
- 7.a) What are the threats to biodiversity?
  - b) Write the in-situ measures of conservation of biodiversity. [5+5]
8. Write about:
    - a) Automobile pollution and
    - b) Effects of Noise pollution. [5+5]
- OR**
- 9.a) Write the Global impacts of air pollution.
  - b) Describe the Reduce, Recycle & Recovery principles of solid waste management. [5+5]
10. Write the salient features of Environment Protection Act. [10]
- OR**
11. Write short notes on:
    - a) Green Buildings and
    - b) Environmental Impact Analysis. [5+5]