

R13

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]