

**R13****Code No: 114CW****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B.Tech II Year II Semester Examinations, May - 2016****ENVIRONMENTAL STUDIES****(Common to CE, ECE, CSE, EIE, IT, MCT, ETM, MMT, AME, PTE, CEE)****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) Define the term Ecosystem. [2]
- b) What is Bio-magnification? [3]
- c) Write the importance of forests. [2]
- d) Why are fossil fuels are regarded as non-renewable energy resources? [3]
- e) Write the ethical value of biodiversity. [2]
- f) Mention the ex-situ measures of conservation of bio-diversity. [3]
- g) What is e-waste? [2]
- h) What are secondary air pollutants? [3]
- i) Define bio-medical waste. [2]
- j) Write the concept of Green Building. [3]

**PART - B****(50 Marks)**

- 2.a) Give the classification of ecosystems.
  - b) Explain energy flow models in ecosystem. [5+5]
- OR**
- 3.a) Explain the structure of an ecosystem.
  - b) With a neat sketch, describe Carbon cycle. [5+5]
- 4.a) What are the various sources of water ? Write the differences in their quality.
  - b) Write the Environmental Impacts of dams. [5+5]
- OR**
5. What are non-conventional energy resources? Write their merits. [10]
- 6.a) What is meant by genetic diversity, species diversity and ecosystem diversity?
  - b) What are the values of biodiversity? [5+5]
- OR**
7. Explain the measures of conservation of bio-diversity. [10]
- 8.a) Define Air Pollution. What are the sources of air pollution?
  - b) Write the impacts of modern agriculture. [5+5]
- OR**
9. What are the global impacts of air pollution? [10]

10.a) What is EIA? How is it accomplished?

b) Describe the impact of dams on socio-economic attribute.

[5+5]

**OR**

11. Write the salient features of Environmental Protection Act.

[10]

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