

**Code No: 126AF****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, December - 2017****ENVIRONMENTAL STUDIES****(Electrical and Electronics Engineering)****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) What are natural ecosystems? [2]
- b) What is food Web? Give example. [3]
- c) What is meant by conservation of natural resources? [2]
- d) What are fossil fuels? [3]
- e) What is biodiversity? [2]
- f) What are the main causes of the loss of biological diversity nowadays? [3]
- g) Distinguish between "Ambient Air Quality Standards" and "Emission Standards". [2]
- h) What are the air pollutants in automobile exhaust? [3]
- i) Which type of project usually requires an EIA? [2]
- j) What is essential in an EIA? [3]

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

- 2 Explain the concept of ecological pyramid. [10]  
**OR**
- 3 Explain the flow of energy through the various components of the ecosystem. [10]
- 4 Enumerate the different water resources and their contribution. [10]  
**OR**
- 5 Discuss about the equitable use and conservation of natural resources. [10]
- 6 What do you mean by consumptive use value, productive use value, social value, ethical value and option value of biodiversity? [10]  
**OR**
- 7 Mention the important site in India identified for the conservation of endemic species and list the major endemic species of India. [10]
- 8 List the types of Indoor air Pollutants, their sources and associated impacts. [10]  
**OR**
- 9 Explain the importance of meteorology on atmospheric diffusion. [10]
- 10 Explain the various steps in preparing of EIA report. [10]  
**OR**
- 11 Discuss objectives, merits and demerits of EIA. [10]