

Code No: 126AF

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech III Year II Semester Examinations, May - 2016

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 is carrying capacity and write about scope of ecosystem? [2]
- b) What is Bioaccumulation and write its effects on living organisms? [3]
- c) Classify the minerals based on properties and uses. [2]
- d) Write about the characteristics of water. [3]
- e) What is the difference between national park and reserve forest? [2]
- f) List out at least 3 endemic and 3 endangered species of India. [3]
- g) Write about the concept of Bioremediation. [2]
- h) Differentiate deforestation and desertification. [3]
- i) Write a note on Environmental ethics. [2]
- j) Describe the concept of Green Building. [3]

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

2. Explain Energy flow models with neat sketch. [10]

**OR**

3. Describe biomagnification and ecosystem value. [10]

4. What are the uses of forests and explain the causes and consequences of deforestation? [10]

**OR**

5. Explain at least 5 renewable resources along with their advantages and disadvantages. [10]

6. Write about National Biodiversity act and explain the uses of biodiversity. [10]

**OR**

7. Write about threats of Biodiversity and explain the conservation methods of Biodiversity [10]

8. Write the types, collection, segregation and disposal methods of solid waste. [10]

**OR**

9. Write about ozone depletion and explain the complete process of e-waste management. [10]

- 10.a) Explain Water act and Forest acts.

- b) Write about hazardous waste management. [5+5]

**OR**

- 11.a) Explain the concept of EMP.

- b) Describe the Biomedical waste handling rules. [5+5]

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