R13

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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