JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech II Year I Semester Examinations, February/March - 2016
ENVIRONMENTAL STUDIES
(Common to ME, 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) What is Ecology?   [2]
  b) Describe the components of Ecosystem.   [3]
  c) Write notes on "Tehri" Dam dispute.   [2]
  d) Write notes on "Solar Power".   [3]
  e) How do you conserve biodiversity?   [2]
  f) Explain Genetic biodiversity?   [3]
  g) What is Acid Rain?   [2]
  h) What is ELNINO?   [3]
  i) Write short notes on Life Cycle assessment.   [2]
  j) Write short notes on Low Carbon Life Style.   [3]

PART- B   [50 Marks]

2.a) Explain about the Grass Land Ecosystem and its functions.
  b) Describe the Aquatic Ecosystems.
  c) Explain the phenomenon of ecological succession.   [4+3+3]

OR

3.a) Explain the terms "Producers", "Consumers" and "Decomposers" in an Ecosystem.
  b) Explain the terms "Food Chain" and "Food Web" with suitable examples.
  c) Write notes on the Desert Ecosystem.   [4+3+3]

4.a) What are Mineral Resource? Discuss the use and exploitation mineral resources.
  b) What are World Forest Problems? Suggest measures for solving World Food Problems.
  c) Write an essay on renewable and non – renewable recourse of energy.   [4+3+3]

OR

5.a) Write an essay on Land Recourses. What are "Soil Erosion" and "Desertification".
  b) Explain the natural cycles of atmosphere. How do these cycles maintain Balance of Nature?
  c) Explain different benefits of forests.   [4+3+3]

6.a) List some causes of extinction of wild life?
  b) Explain the concept of Bio-diversity and its legislation in India.
  c) Describe the significance of the "Earth Day" and the "World Environment Day". What are the resolutions of the Earth Summit?   [4+3+3]

OR

7.a) Classify the types of biodiversity and explain in detail with examples.
  b) What is the importance of protecting the biodiversity of earth?
  c) Explain the biogeographically classification of India.   [4+3+3]

8.a) Explain the phenomenon of soil pollution, How is it controlled?
  b) Write an essay on pesticides and pesticide pollution.
  c) Write an essay on solid waste management.   [4+3+3]

OR

9.a) Explain the role of individuals in the protection of the environment.
  b) Explain the phenomenon of particulate pollution of air. How is it prevented?
  c) What is radioactive pollution?   [4+3+3]

10.a) Explain the benefits derived from environment.
  b) Write an essay on the National Environment Policy of India.
  c) Explain different Constitutional measures and legislative measures taken by Government of India for environmental protection.   [4+3+3]

OR

11.a) Write a note on evolution of environmental policies in India.
  b) Explain the Environmental Protection Acts
  c) Write short notes on Environmental Ethics.   [4+3+3]

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