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Code No:114CW

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B.Tech II Year II Semester Examinations, May-2015****ENVIRONMENTAL STUDIES**

(Common to CE, ECE, CSE, EIE, BME, IT, MCT, 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.

(3)

PART-A**(25 Marks)**

- 1.a) Explain any two types of components of Ecosystem? [2M]
- b) What is significance of food web? [3M]
- c) What are the benefits and problems of construction of dams? [2M]
- d) Write a note on land degradation? [3M]
- e) Define Ex-situ conservation? [2M]
- f) Explain the concept of Bio-diversity and its legislation in India? [3M]
- g) Write the strategies for abatement of water pollution [2M]
- h) Write note on global climate change? [3M]
- i) Write a short note on the Environmental Ethics? [2M]
- j) What are the advantages of Green building? [3M]

PART-B**(50 Marks)**

- 2.a) Explain the functions of components of ecosystem?
- b) Explain the terms "Food Chain" and "Food Web" with suitable examples?
- c) Describe the biotic and abiotic components of an ecosystem? [3+4+3]

OR

- 3.a) What are Bio-geochemical cycles?
- b) What are the different trophic levels of organisms in an ecosystem?
- c) What is an ecological pyramids? [3+4+3]

- 4.a) Discuss the causes and consequences of deforestation?
- b) Write short notes on land resources?
- c) Explain the Environmental effects of extraction and using of mineral resources. [3+3+4]

OR

- 5.a) Discuss the role of alternate energy source in meeting the growing energy needs.
 - b) Write short notes on over utilization of surface and ground water?
 - c) Briefly explain the control of the floods and droughts? [4+3+3]
- 6.a) Explain the Species, Biodiversity and its significance?
 - b) How do you conserve biodiversity?
 - c) Explain why India is called a Mega Diversity Nation? [3+4+3]

OR

4

- 7.a) Explain the value of Biodiversity?
b) Describe the endangered and endemic species in India and suggest methods to protect them?
c) Write short notes on "Hot spots of Biodiversity"? [3+4+3]
- 8.a) Write an essay on solid waste management?
b) Explain the role of Individuals in the protection of the environment?
c) Explain the phenomenon of particulate pollution of air. How is it prevented? [3+3+4]

OR

- 9.a) How is Noise pollution controlled?
b) How is urban industrial wastes are disposed?
c) Write an essay on ozone layer depletion? [3+4+3]
- 10.a) Discuss the salient features of Forest conservation Act?
b) Explain the Environmental impacts of ever growing population in India?
c) Write an essay on Environmental impact assessments? [3+4+3]

OR

- 11.a) Explain the concept of Green building?
b) Briefly explain the wild life conservation Act?
c) Brief Note on environmental protection Acts? [3+4+3]

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