Code No: 124CW

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year II Semester Examinations, May - 2017 **ENVIRONMENTAL STUDIES** (Common to CE, ECE, CSE, EIE, IT, MCT, ETM, MMT, PTM, CEE, AME)

Time: 3 Hours

Max. Marks: 75

(25 Marks)

[2]

R15

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

1.a) Write the significance of biogeochemical cycle in pollution abatement. [2]

- Differentiate between terrestrial ecosystem and aquatic ecosystem. b) [3] [2]
- What are the environmental effects of mineral extraction? c)
- d) Summarize the major reasons for deforestation. List the ill effects of deforestation. [3]
- What is meant by species diversity? e)
- Write the methodology involved in ex-situ and in-situ conservation of a species. f) [3]
- Identify the sources of noise pollution in rural areas. List out the health hazards of **g**) noise pollution. [2]
- What are the ambient air quality standards prescribed by central pollution control h) board in India? [3]
- How crazy consumerism affects the environment? [2] i)
- What are the salient features of wildlife protection act? **i**) [3]

PART-B

(50 Marks)

2. Describe the components that make up the structural aspects and functional aspects of an ecosystem. [10]

OR

- 3. Explain the mechanism involved in the energy flow between various components of an ecosystem. [10]
- 4.a) Describe the measures to be taken for the better management of available drinking water resources.
- b) Discuss the environmental impacts of building the water reservoirs and dams.

[5+5]

[7+3]

OR

- 5. Explain the sources, commercial applications and limitations of biomass energy. [10]
- 6.a) Enumerate the reasons and need for: genetic diversity and ecosystem diversity.
- How the loss of biodiversity contributes to global climatic changes? b) [7+3]
- Explain the ten major Biogeographic Zones situated in CO. IN 7.a)
- With examples, discuss the social values of biodiversity. b)

8.	Describe the mechanism of polluting the soil by: excess use of fertilizer, pesticides and excess salts.	[10]
	OR	
9.	Explain the sources and ill effects of ozone layer depletion. Suggest few to reduce the effect due to depleting ozone layer.	w methods [10]
10.a)	Describe the sources and environmental impacts of municipal solid waste.	
b)	What are hazardous solid wastes? Give examples.	[7+3]
OR		
11.	Explain the characteristics, structure, stages and techniques Environmental Impact Assessment (EIA).	used for [10]

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