

Code No: 114CW

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B.Tech II Year II Semester Examinations, May - 2019****ENVIRONMENTAL STUDIES****(Common to CE, ECE, CSE, EIE, IT, PTM)****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) What is Bio magnification? [3]
c) What are the alternative energy sources? [2]
d) What are the benefits of dams? [3]
e) Define the term Biodiversity. [2]
f) Differentiate ex-situ and in-situ conservation of biodiversity. [3]
g) What is pollution and give the sources of water pollution? [2]
h) Explain the Ozone layer depletion. [3]
i) What are the salient features of environmental protection act? [2]
j) What is Crazy consumerism? [3]

PART-B**(50 Marks)**

- 2.a) Write about the flow of energy in ecosystem.
b) Explain the Bioaccumulation. [5+5]
- OR**
- 3.a) What are structural units of ecosystem?
b) What is carrying capacity of water body? Explain in detail. [5+5]
- 4.a) What are the consequences of over utilization of ground water?
b) Explain importance of the forest resources. [5+5]
- OR**
- 5.a) Give a strategic view to meet increasing energy need.
b) Explain the impacts on environment by exploitation of mineral resources. [5+5]
- 6.a) Explain the value of Biodiversity.
b) How the India is a mega biodiversity nation? Explain. [5+5]
- OR**
- 7.a) Write about national Biodiversity act.
b) What is hotspot? Explain in detail. [5+5]

- 8.a) What are the primary and secondary sources of air pollution?
b) How the degradation of soil is caused due to modern agriculture. [5+5]
OR
- 9.a) How the bioremediation method works to control soil pollution?
b) What are the salient features of Kyoto protocol? [5+5]
- 10.a) What is the importance of EIA study.
b) Write about population exploitation and its effects. [5+5]
OR
- 11.a) Write about the green building concept.
b) How the life cycle assessment helps to protect environment? [5+5]

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