

Code No: 113AF

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B.Tech II Year I Semester Examinations, May/June - 2015****ENVIRONMENTAL STUDIES****(Common to ME, CHEM, AE, MIE, 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.

**PART- A****(25 Marks)**

- 1.a) Define the term Ecosystem. [2M]
- b) What is a food chain? Give an example. [3M]
- c) Mention three water conservation measures. [2M]
- d) What are floods? Mention one control measure. [3M]
- e) Mention hot spots of biodiversity in India. [2M]
- f) What is meant by aesthetic value of biodiversity? [3M]
- g) Define Noise Pollution. [2M]
- h) Distinguish between primary and secondary air pollutants. [3M]
- i) Mention the Environmental education programmes in India. [2M]
- j) What is hazardous waste? [3M]

**PART-B****(50 Marks)**

- 2.a) Give the classification of ecosystem. Explain Pond ecosystem. [5+5]
- b) Explain ecological pyramids. [5+5]

**OR**

- 3.a) With a neat sketch explain carbon cycle. [5+5]
- b) Define the terms producers, consumers, decomposers and detritivores. [5+5]

- 4.a) Write the impacts of mining on forests and tribal people. [5+5]
- b) Explain Solar Power generation and its merits. [5+5]

**OR**

- 5.a) What are the impacts of dams on forests and tribal people. [5+5]
- b) Mention the reasons for water pollution, and explain the control measures. [5+5]

- 6.a) Explain India as a mega diversity nation. [5+5]
- b) What are the threats to biodiversity? [5+5]

**OR**

- 7.a) Define the term biodiversity. What are its values? [5+5]
- b) Explain biodiversity conservation measures. [5+5]

- 8.a) What are the impacts of modern agriculture.  
b) What are the drinking water standards for nitrates and fluorides? What are the health impacts of nitrates and fluorides? [5+5]

OR

- 9.a) What are the causes and consequences of deforestation?  
b) Explain Green house effect. [5+5]

10. Write the salient features of The Water (Prevention and Control of Pollution), Act, 1974. [10]

OR

11. What is sustainable development? What are the strategies for sustainable development? [10]

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OR