

Code No: 126AF**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B.Tech III Year II Semester Examinations, May - 2017****ENVIRONMENTAL STUDIES****(Electrical and Electronics Engineering)****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) Write about ecosystem value and services. [2]
- b) What is Biomagnification and write its effects on living organisms? [3]
- c) What are the impacts related to Ground water depletion? [2]
- d) Describe the impacts at upstream and down stream due to big dams. [3]
- e) What is Hot spot and mention Indian Hot spots? [2]
- f) List out at least 3 endemic and 3 endangered species of India. [3]
- g) Write about the Earth summit and Kyoto protocol. [2]
- h) What are the control methods of Noise pollution? [3]
- i) What is Ecological foot print? [2]
- j) Describe Life cycle assessment. [3]

PART - B**(50 Marks)**

2. Explain 3 biogeochemical cycles with neat sketch. [10]
- OR**
3. Describe food chain, food web and ecological pyramids with examples. [10]
 4. List and explain the methods of mining and also impacts of mining. [10]
- OR**
- 5.a) Describe the sources and causes of soil erosion.
 - b) Explain the soil conservation methods. [5+5]
6. Briefly describe the levels of Biodiversity and uses of Biodiversity. [10]
- OR**
7. Write about threats of Biodiversity and explain the conservation methods of Biodiversity. [10]
 8. Explain the control methods of particulate and gaseous pollutants. [10]
- OR**
9. Describe the primary, secondary and tertiary treatment methods to control water pollution. [10]
 - 10.a) Write down salient features of air act and Wild life acts.
 - b) Write about Biomedical waste management. [5+5]
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11. How can we achieve sustainable management? Explain along with a flow chart. [10]