

**R13**

Code No: 114CW

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B.Tech II Year II Semester Examinations, October/November - 2016**

**ENVIRONMENTAL STUDIES**

**(Common to CE, ECE, CSE, EIE, 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.

**PART - A**

**(25 Marks)**

- 1.a) Define carrying capacity and ecosystem value. [2]
- b) Define and classify food chains. [3]
- c) Write about Hydrogen as a fuel. [2]
- d) What are the downstream problems of Dams? [3]
- e) Differentiate endangered and rare species. [2]
- f) Define Hotspot and write about Hotspots in India. [3]
- g) What are the impacts of Climate change? [2]
- h) Write about Kyoto and Montreal protocols. [3]
- i) What is Ecological Foot print? [2]
- j) Write about Life cycle assessment. [3]

**PART - B**

**(50 Marks)**

2. Define food web and explain energy flow models with neat sketch. [10]

**OR**

3. Explain any three nutrient cycles with neat sketch. [10]

4. What are the uses of forests and explain about non-renewable resources? [10]

**OR**

5. What are the impacts of mining and explain the soil conservation methods? [10]

6. Briefly explain Biogeographical classification of India and write about the conservation of Biodiversity. [10]

**OR**

7. What are the uses of Biodiversity and write any 5 endemic and 5 endangered species of India? [10]

8. Explain the primary, secondary and tertiary treatment methods of waste water with neat sketch. [10]

**OR**

9. Write the ambient air quality standards and noise pollution standards. [10]

10. Write the Municipal solid handling rules and also explain Biomedical waste management. [10]

**OR**

11. How can we achieve sustainable development and Justify your answer? [10]