

**R15**

Code No: 123AF

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B.Tech II Year I Semester Examinations, March - 2017****ENVIRONMENTAL STUDIES****(Common to ME, AE, MIE)****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) Summarize bioaccumulation. [2]
- b) Discuss about food chain with an example. [3]
- c) Discuss renewable energy sources. [2]
- d) Write any three uses of solar energy. [3]
- e) Summarize exsitu conservation. [2]
- f) Name any three common animal species. [3]
- g) Write sources for marine pollution. [2]
- h) Write a short note on hazards –waste. [3]
- i) Interpret biomedical waste. [2]
- j) Summarize Low carbon life style. [3]

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

- 2.a) Discuss the structure and function of forest ecosystem.
  - b) Explain the threats to aquatic Ecosystem. [5+5]
- OR**
- 3.a) Describe ecological pyramid.
  - b) Discuss the conservation of marine ecosystem. [5+5]
- 4.a) Discuss the effects of deforestation.
  - b) Summarize the Dams: benefits and problems. [5+5]
- OR**
- 5.a) Write a short note on growing energy needs.
  - b) Write a short note on causes, effects and control of drought. [5+5]
- 6.a) Write a short note on types of biodiversity.
  - b) Write short note on Consumptive use and productive use. [5+5]
- OR**
- 7.a) Describe natural biodiversity act.
  - b) Write a short note on causes for threats to biodiversity. [5+5]
- 8.a) Discuss the effects and control of noise pollution.
  - b) Interpret the Kyoto protocol. [5+5]
- OR**
- 9.a) Summarize on Environmental problems and health risk caused by e-waste.
  - b) Describe waste water treatment methods in brief along with their significance. [5+5]

- 10.a) Write a short note on Concepts of Environmental Management Plan.  
b) Write a short note on Urban Sprawl. [5+5]

**OR**

- 11.a) Discuss in detail the concept of sustainable development.  
b) Write a short note on Life Cycle assessment. [5+5]

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