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Code No. : 21304

**VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD**  
**B.E. II Year (E.C.E.) I-Semester (Main) Examinations, December - 2015**

**Environmental Studies**

Time: 3 hours

Max. Marks: 70

*Note: Answer ALL questions in Part-A and any FIVE questions from Part-B*

**Part-A (10 × 2=20 Marks)**

1. Define renewable and non-renewable resources and give examples.
2. Define soil erosion.
3. Define ecology and ecosystem.
4. Explain the terms food-chain and food-web.
5. Differentiate in-situ and ex-situ conservation of biodiversity.
6. What do UNEP and IUCN stand for?
7. What are the control measures of noise pollution?
8. Define pollution and name four air pollutants.
9. What is Greenhouse Effect? List what are Greenhouse Gases.
10. What are the types of natural disasters?

**Part-B (5 × 10=50 Marks)**  
**(All bits carry equal marks)**

11. a) Write about benefits and environmental problems due to Dams.  
b) Discuss fertilizer-pesticide problems in modern agriculture.
12. a) What are ecological pyramids? Explain why some of these pyramids are upright while others are inverted in different ecosystems?  
b) Discuss the Models of Energy Flow in an ecosystem.
13. a) Describe the major threats to biodiversity.  
b) What is Red Data Book? What do you mean by extinct, endangered, vulnerable and rare species? Name some endangered species of plants and animals of our country.
14. a) Discuss how e-Waste can be managed to prevent environmental pollution.  
b) Discuss the salient features of environmental (Protection) Act, 1986.
15. a) What is meant by acid rain? Discuss the causes and effects of acid rain.  
b) Write an account on the impact of disasters to life and environment.
16. a) What is water-logging and salinity? Write causes and remedial measures of water-logging and salinity.  
b) Classify ecosystems and discuss them briefly.
17. Write short notes on any *two* of the following:
  - a) Values of biodiversity.
  - b) Causes and effects of water pollution.
  - c) Climate Change.

(ChitB)