

**Code No: 113AF****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B.Tech II Year I Semester Examinations, December-2014****ENVIRONMENTAL STUDIES****(Common to ME, CHEM, AE, MIE, MSNT, 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 and may have a, b, c as sub questions.

**Part- A****(25 Marks)**

- |      |   |      |
|------|---|------|
| 1.a) | Why are green plants regarded as primary producers?           | (2M) |
| b)   | Define hydrological cycle and explain.                        | (3M) |
| c)   | What is a mineral?  | (2M) |
| d)   | What are renewable energy resources?                          | (3M) |
| e)   | Define the term biodiversity.                                 | (2M) |
| f)   | Mention the in-situ measures of conservation of biodiversity. | (3M) |
| g)   | Define solid waste management.                                | (2M) |
| h)   | Distinguish between primary and secondary air pollutants.     | (3M) |
| i)   | Define water pollution.                                       | (2M) |
| j)   | What is sustainable development?                              | (3M) |

**Part- B****(50 Marks)**

2. Explain the functions of an ecosystem.
- OR**
3. Write short notes on:  
a) Biomagnifications  
b) Types of ecosystems.
4. Write the benefits and problems associated with construction of dams.
- OR**
5. What are non-conventional energy resources? Explain.
6. Define biodiversity. What are the threats to biodiversity?
- OR**
7. Explain conservation of biodiversity.
8. Define air pollution. Write about the global impacts of air pollution.
- OR**
9. Write the effects of water pollution on human health.
10. Write the salient features of The Environment protection AIR act (1981).
- OR**
11. Write short notes on:  
a) Importance of environmental education.  
b) Impacts of urbanization on environment.