

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)**

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|------|---|------|
| 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.