

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 199205 Roll No.

**B.Tech.**

(SEM. II) THEORY EXAMINATION 2013-14  
**ENERGY, ENVIRONMENT AND ECOLOGY**

Time : 3 Hours

Total Marks : 80

**SECTION—A**

**Note** :- Attempt **all** parts of this question. Each part carries 2 marks. **(2×8=16)**

1. (a) What are the constituents of Environment ?
- (b) What is Food Chain ? Give their types.
- (c) Write classification of Natural Resources.
- (d) Define Sustainable Agriculture.
- (e) Classify various types of Energy resources as per their utilization.
- (f) What are the uses of natural gas ?
- (g) Define pollution and give their various types.
- (h) What are the water borne diseases ?

**Note** :- Attempt any **three** parts of this question. Each part carries 8 marks. **(8×3=24)**

2. (a) Define lapse rate. Discuss different layers of atmosphere in detail.
- (b) What do you mean by Mineral Resources ? What are the various environmental impacts of mineral extraction ?
- (c) Discuss 'hydrogen as an alternative future source of energy'.
- (d) What do you mean by Water Pollution ? Discuss its major sources of water treatment with layout of a water treatment plant.
- (e) What is EIA ? Give a flow diagram for preparing EIA and EIS.

**SECTION—C** **(8×5=40)**

**Note** :- Attempt **all** questions of this section. Each question carries 8 marks.

3. Write an explanatory note on the multi-disciplinary nature of environmental studies.

**OR**

What is meant by structure of an ecosystem ? Explain various components of an ecosystem structure. Discuss the functions of an ecosystem also.

4. Define biodiversity. Classify it along with conservation approaches.

**OR**

What do you know about seed suicide ? Give a detailed note on it.

5. Give the advantages and limitations of solar energy.

**OR**

How will you get energy from biodegradable matter ?

6. Explain the various methods commonly employed for disposal of solid waste, with their advantages and disadvantages.

**OR**

Explain the following terms :

- (i) Eutrophication
- (ii) Bio-magnification
- (iii) Greenhouse Effect
- (iv) Acid Rain.

7. Discuss the salient features of Environment Protection Act, 1986.

**OR**

Explain the following terms :

- (i) Bhopal Gas Tragedy
- (ii) London Smog
- (iii) Los Angeles Smog
- (iv) NGO's.