(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 ?

SECTION—B

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.