



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

PAPER ID : 991101

Roll No.

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B. Tech.

(SEM. I) (ODD SEM.) THEORY
EXAMINATION, 2014-15

ENERGY, ENVIRONMENT & ECOLOGY

Time : 3 Hours]

[Total Marks : 80

Note: Attempt all sections.

SECTION - A

Attempt all questions in brief :

2×8=16

1. What is land degradation?
2. Write a short note on Need of public awareness about environment.
3. Define Biodiversity.
4. Enlighten Bhopal Gas Tragedy.
5. What are the gases responsible for ozone layer depletion?
6. Classify the energy resources.
7. Briefly explain In-situ Ex-situ conservation of biodiversity.
8. What is the role of an individual in prevention of pollution?

SECTION - B

Attempt any three parts of this section : $8 \times 3 = 24$

1. Define Ecology and Eco system. Explain the role of producers, consumers and decomposers in an ecosystem.
2. Define air pollution. What are the sources of air pollution? How will you classify air pollutants?
3. Give a classification of Natural resources. What are the environment effects of extracting and using mineral resources?
4. Discuss the role of government and legal aspects in environmental protection.
5. Write a short note on :
 - (a) Fossil fuels
 - (b) Biomass
 - (c) Nuclear and hydroelectric energy
 - (d) Biogas and hydrogen fuel energy.

SECTION - C

Attempt all questions of this section : $8 \times 5 = 40$

1. With the help of flow chart, describe the environment impact assessment process.

OR

What are the roles of NGOs (Non Government Organization) in environmental protection?

2. Explain the Sulphur cycle with neat sketch.

OR

Discuss the impact of urbanisation on environment. Also discuss the need of public awareness about the environment.

3. What are the green house gases? Name and discuss their contribution to global warming. What can be the effect of global warming?

OR

Write down National Ambient Air Quality Standards for Industrials, Residential, Rural and other area as prescribed by Central Pollution Control Board.

4. Define environment. Discuss in brief four segment of environment.

OR

What is the noise pollution? What are the various effects of noise pollution?

5. What are the sources and effects of solid waste? Explain waste minimization techniques.

OR

Write a short note on energy resources. What are the renewable and non renewable energy sources? How the alternate energy sources are affect human life?