

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

PAPER ID : 3103

Roll No.

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B. Tech.

(SEM. I) ODD SEMESTER THEORY
EXAMINATION 2010-11

ENVIRONMENT & ECOLOGY

Time : 2 Hours

Total Marks : 50

Note : The question paper contains three sections—
Section—A, Section—B, and Section—C with the
weightage of 10, 15 and 25 marks respectively.
Follow the instruction as given in each section.

SECTION—A

This question contains 10 questions of multiple choice/Fill in
the blanks/True, False/Matching correct answer type questions.
Attempt all parts of this section. **(10×1=10)**

1. Fill in the following blanks with suitable words :—
- A World Environment Day is observed on _____.
 - Chipko movement was started to conserve _____.
 - Acid rain is caused due to emission of _____ to the atmosphere.
 - Balika Samridhi Yojna is a measure of _____ welfare.
 - The ecological pyramid which is always straight is _____.
 - The maximum value of requirement (desirable limit) of Fluoride (as F) in drinking water as per IS 10500 is _____.

- (g) Gas leaked in Bhopal Tragedy was _____.
- (h) The study of interaction between living and non-living organism and environment is called as _____.

Indicate True or False for the following statements :—

- (i) Algae is an example of Protozoa — True/False.
- (ii) Green marketing and eco-labeling are good strategies to protect environment from waste products — True/False.

SECTION—B

2. Attempt any three parts. All parts carry equal marks :—

(5×3=15)

- (a) Write an explanatory note on the multidisciplinary nature of environmental science.
- (b) Discuss the environmental effects of extracting and using mineral resources.
- (c) Write down National Ambient Air Quality Standards for Industrial, Residential, Rural and other area as prescribed by Central Pollution Control Board.
- (d) Discuss the Indian Scenario in solar energy utilization and development.
- (e) Explain intensity, power and pressure levels of noise.

SECTION—C

Attempt any Five questions. (5×5=25)

3. (a) Define ecology and ecosystem. Explain the role of producers, consumers and decomposers in an ecosystem.
- (b) With the help of flow chart, describe the Environment Impact Assessment process.

4. (a) What is deforestation ? Enumerate and discuss the various causes of deforestation.
(b) Explain the sulphur cycle with neat sketch.
5. (a) Define air pollution. What are the sources of air pollutants ? How will you classify air pollutants ?
(b) What are the sources and effects of solid waste ? Explain waste minimization techniques.
6. (a) What are greenhouse gases ? Name and discuss their contribution to global warming. What can be the effects of global warming ?
(b) 'The Earth System is not and never has been free from climate change.' Comment.
7. (a) What is ozone hole ? What are the causes of ozone hole formation ? What are the effects of depletion of ozone layer ?
(b) What should be the 'guidelines for excellence' for environmental education ?
8. (a) Discuss the strategy and policy adopted by Government of India for the development of women education.
(b) Discuss the role of Government and legal aspects in environmental protection.
9. Write short notes on following :—
 - (a) Effect of transportation activities on environment.
 - (b) Hydrogen as an alternate future source of energy.