

(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 II) EVEN SEMESTER THEORY EXAMINATION,  
2009-2010

### ENVIRONMENT AND 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 instructions 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. Attempts all parts of this section.

1. Fill in the following blanks with suitable words : 10x1=10
- Troposphere is located \_\_\_\_\_  
Stratosphere.
  - The term 'Ecology' was introduced by \_\_\_\_\_.
  - The disease caused by excess of fluoride in water is known as \_\_\_\_\_.
  - Herbivores are \_\_\_\_\_ consumers.
  - \_\_\_\_\_ is related to Global warming.

- (f) The best known substance responsible for ozone layer depletion \_\_\_\_\_.

*Indicate True or False for the following statements :*

- (g) Mosquito is an example of Bacteria.

**True/False**

- (h) Rain water does not create any land pollution.

**True/False**

- (i) Only legislation is not sufficient for the control of environmental pollution.

**True/False**

*Tick one correct answer among the following given choices :*

- (j) Biogas predominantly contains :

(i)  $\text{CH}_4$

(ii)  $\text{NH}_3$

(iii)  $\text{SO}_2$

(iv) Ethane

### SECTION - B

2. Attempt *any three* parts. All parts carry *equal* marks : **5x3=15**

(a) How would environmental awareness help to protect our environment ?

(b) Briefly discuss the various energy resources.

- (c) What is solid waste ? Discuss its sources and effects.
- (d) What is acid rain ? What are the causes and effects of acid rain ?
- (e) Which are the Government organization/ Department responsible for the protection of the environment ? Write brief details of these.

### SECTION - C

Attempt *any two* parts from each question. All questions are *compulsory*. 5x5=25

- 3.
  - (a) Discuss in brief four segments of environment ?
  - (b) Define the concept of ecosystem.
  - (c) What is sustainable development ? Discuss the concept of sustainable development.
  
- 4.
  - (a) Name and explain the various steps involved in Nitrogen cycle.
  - (b) Give a brief account of non-renewable energy resources.
  - (c) Briefly discuss the fluoride problem in drinking water.
  
- 5.
  - (a) What is Pollution ? Discuss the natural and man made (synthetic) pollutant that cause air pollution.

- (b) How can the solid waste be managed ?
- (c) Enumerate with examples the major sources of water pollution.

- 6.
- (a) What are the major impacts of enhanced global warming ?
  - (b) What are the agents responsible for Ozone depletion ?
  - (c) How human activities are likely to change the global climate ?

- 7.
- (a) What is animal husbandry ? Explain the environmental concerns of animal husbandry.
  - (b) Discuss the Role of NGO's in environmental protections.
  - (c) How women's education helps in environment preservation ?