

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

PAPER ID : 199210

Roll No.

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**B.Tech.**

(SEM. II) THEORY EXAMINATION 2013-14

**ENVIRONMENT AND ECOLOGY**

*Time : 2 Hours*

*Total Marks : 50*

**Note** :- Attempt **all** questions. Marks and number of questions to be attempted from the Section is mentioned after each Section. Assume missing data suitably. Illustrate the answers with suitable sketch.

**SECTION-A**

1. Answer **all** the following questions. Each carries equal marks. (5×2=10)

- (a) What do you mean by eutrophication of lakes ?
- (b) Define the term autecology and synecology.
- (c) Differentiate between Biogas and Gasoline.
- (d) What is acid rain ?
- (e) What are NGOs ?

**SECTION-B**

2. Attempt **any three** parts of the following : (3×5=15)
- (a) What is environment ? Write different zone of the atmosphere. Discuss how temperature changes on increasing the altitude in atmosphere.

- (b) Define the term ecosystem. Explain the various components of ecosystem structure and function. How energy flows in an ecosystem ?
- (c) What is environmental impact assessment ? Discuss various stages of EIA.
- (d) What is meant by environmental pollution ? Discuss its various types and the requirement of non-polluted environment.
- (e) What is environment education ? Describe the role of women education in environment protection.

### SECTION-C

**Note:**—Attempt any **two** parts from each question of this Section.  
Each question carries equal marks. (5×5=25)

- 3. (a) Explain the multidisciplinary nature of environmental studies.
- (b) Define food chain. Name and explain various types of food chains with suitable examples.
- (c) Discuss the major world food problems. How does under-nourishment differ from malnourishment ?
- 4. (a) Define sustainable development. Explain the equitable use of resources for sustainable lifestyle.
- (b) Discuss the various effects of modern agricultural activities by the human on environment.
- (c) Discuss the adverse of urbanization and industrialization on environment. Suggest suitable remedial measures.

- 5. (a) Explain the difference between renewable, non-renewable and perpetual natural resources with help of suitable example.
- (b) What is deforestation ? Discuss the major causes and ill-effects of deforestation.
- (c) What is biogeochemical cycle ? How does carbon in environment play a role in regulating global climate ?
- 6. (a) What do you mean by water pollution ? Discuss how water bodies can be saved from ill-effects of uncontrolled discharge of waste water in them.
- (b) What is green house effect ? How does it lead to global warming ? Briefly describe the characteristics of major green house gases.
- (c) What is waste ? Discuss different type of solid wastes. Briefly discuss the various criteria for selecting an environmentally safe site for waste disposal.
- 7. (a) What is ozone hole ? Discuss the major causes of ozone hole formation with suitable equation.
- (b) What is an environmental policy ? Name some of the legislation present in India for environmental protection.
- (c) Discuss the role of government in Environmental protection.