



**B. TECH.**  
**(SEM IV) THEORY EXAMINATION 2018-19**  
**ENVIRONMENT & ECOLOGY**

**Time: 3 Hours****Total Marks: 70****Note:** Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

**1. Attempt all questions in brief. 2 x 7 = 14**

- a. Explain bio-magnification with examples.
- b. Why green house is necessary for the earth?
- c. Define BAP and its source of production.
- d. "Sea is a major sequestering medium of carbon". Justify it.
- e. Define BOD.
- f. Explain flood and its main causes.
- g. What do you understand by the term "Biotic and Abiotic" with examples?

**SECTION B**

**2. Attempt any three of the following: 7 x 3 = 21**

- a. What are the different ways to restore the damage of ecosystem? Explain In-situ approach for conservation of ecosystem.
- b. Draw and explain nitrogen cycle. Explain nitrification and denitrification process.
- c. What is meant by environment? Enumerate and discuss its various components.
- d. Define the term biodiversity? Explain the types and importance of biodiversity in detail.
- e. Explain the need of education for controlling the pollution? What are bio-indicator and their types?

**SECTION C**

**3. Attempt any one part of the following: 7 x 1 = 7**

- (a) Define biomass and biogas energy. Explain the different types of biogas plant with suitable diagram.
- (b) Explain why water logging and salinity are responsible for decrease in soil fertility.

**4. Attempt any one part of the following: 7 x 1 = 7**

- (a) Write an explanatory note on the multidisciplinary nature and importance of environmental studies.
- (b) Explain the term food chain and food web. Depict the various types of food chains and food web with suitable examples.

**5. Attempt any one part of the following: 7 x 1 = 7**

- (a) What is air pollution? Explain the different sources, effects and controlling measures of air pollution.

- (b) Discuss in brief the salient feature of the Water (Prevention and Control of Pollution) Act, 1974.
6. Attempt any *one* part of the following: 7 x 1 = 7
- (a) What is depletion of ozone layer? Give causes and effects of depletion of ozone layer.
- (b) Discuss the adverse impact of urbanization and industrialization on environment and suggest suitable remedial measures.
7. Attempt any *one* part of the following: 7 x 1 = 7
- (a) Describe what are the functions of NGOs for the controlling the pollution.
- (b) What do you understand the term 'solid waste management'? Name and briefly discuss the basic functional elements of solid waste management.

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