

**B. TECH.**  
**(SEM III) THEORY EXAMINATION 2018-19**  
**ENVIRONMENT AND 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. What are hot spots of biodiversity?
- b. What are various types of air pollutants?
- c. Explain the various environmental effects of mineral extraction.
- d. Write short note on balanced ecosystem.
- e. Explain various impacts of water pollution on environment.
- f. Explain the uses of solar energy.
- g. What is fossil? What are fossil fuels?

**SECTION B**2. Attempt any *three* of the following:

7 x 3 = 21

- a. Elaborate the statement "Multidisciplinary nature of environmental science".
- b. What are ecological pyramids? Explain different types of ecological pyramids with suitable examples.
- c. What are natural resources, classify them.
- d. Define ecosystem. Explain various components of an ecosystem structure.
- e. What is acid rain? Give various effects of acid rain on environment.

**SECTION C**3. Attempt any *one* part of the following:

7 x 1 = 7

- (a) What is material cycle? Explain nitrogen cycle with neat diagram.
- (b) What is deforestation? Discuss various causes and effects of deforestation.

4. Attempt any *one* part of the following:

7 x 1 = 7

- (a) Discuss the energy scenario in Indian context.
- (b) What is biodiversity? What are various conservation techniques for biodiversity conservation?

5. Attempt any *one* part of the following:

7 x 1 = 7

- (a) What is ozone layer formation and depletion? Explain its various effects on environment.
- (b) What is solid waste? Explain in brief in solid waste disposal methods.

6. Attempt any *one* part of the following:

7 x 1 = 7

- (a) Discuss how women education aid with the development of India.
- (b) Discuss the fluoride and arsenic problem in drinking water.

7. Attempt any *one* part of the following:

7 x 1 = 7

- (a) Briefly discuss the salient features of Environmental (Protection) Act, 1986.
- (b) Write short note on;
  - (i) Greenhouse effect
  - (ii) Eutrophication