

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

**Time: 3 Hours****Total Marks: 100****Note:** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A**

- 1. Attempt all questions in brief. 2 x 10 = 20**
- a. Write short note on balanced ecosystem.
  - b. Define environment.
  - c. Explain various types of air pollutants.
  - d. What are hot spots of biodiversity?
  - e. What are various types of air pollutants?
  - f. Explain the various environmental effects of mineral extraction.
  - g. Write short note on balanced ecosystem.
  - h. Explain various impacts of water pollution on environment.
  - i. Explain the uses of solar energy.
  - j. What is fossil? What are fossil fuels?

**SECTION B**

- 2. Attempt any three of the following: 10 x 3 = 30**
- a. Briefly discuss the salient features of Environmental (Protection) Act, 1986.
  - b. Write short note on;
    - (i) Green house effect
    - (ii) Eutrophication
  - c. Discuss how women education aid with the development of India.
  - d. Discuss the fluoride and arsenic problem in drinking water.
  - e. What is solid waste? Explain in brief in solid waste disposal methods.

**SECTION C**

- 3. Attempt any one part of the following: 10 x 1 = 10**
- (a) Elaborate the statement "Multidisciplinary nature of environmental science".
  - (b) What are ecological pyramids? Explain different types of ecological pyramids with suitable examples.
- 4. Attempt any one part of the following: 10 x 1 = 10**
- (a) What are natural resources, classify them.
  - (b) Define ecosystem. Explain various components of an ecosystem structure.
- 5. Attempt any one part of the following: 10 x 1 = 10**
- (a) What is acid rain? Give various effects of acid rain on environment.
  - (b) What is ozone layer formation and depletion? Explain its various effects on environment.
- 6. Attempt any one part of the following: 10 x 1 = 10**
- (a) What is material cycle? Explain nitrogen cycle with neat diagram.
  - (b) What is deforestation? Discuss various causes and effects of deforestation.
- 7. Attempt any one part of the following: 10 x 1 = 10**
- (a) Discuss the energy scenario in Indian context.
  - (b) What is biodiversity? What are various conservation techniques for biodiversity conservation?