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