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Roll No.

TEV-101

B. TECH. (FIRST SEMESTER)

END SEMESTER

EXAMINATION, Dec., 2023

ENVIRONMENTAL SCIENCE

Time : Three Hours

Maximum Marks : 100

Note : (i) All questions are compulsory.

(ii) Answer any *two* sub-questions among (a), (b) and (c) in each main question.

(iii) Total marks in each main question are **twenty**.

(iv) Each sub-question carries 10 marks.

1. (a) Describe the components of Ecosystem with suitable examples and figure. (CO1)

(b) Describe the Ecological pyramids of Numbers and Biomass with suitable figure and examples. (CO1)

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(2)

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- (c) Describe the lake Ecosystem with suitable figure. (CO1)
2. (a) Discuss the biodiversity, types and their conservation methods. (CO2)
- (b) Discuss the value of Forest, major threats and Conservation methods with suitable examples and figures. (CO2)
- (c) Define the terms Food chain, Hotspot region, Habitat, Atmosphere, Endemic species. (CO2)
3. (a) Define the water pollution. Explain the primary and secondary water treatment methods with suitable figure. (CO2)
- (b) Explain the Soil conservation methods with suitable figure and examples. (CO2)
- (c) Define the Air Pollution, Air pollution sources and their prevention control methods. (CO2)
4. (a) Define the terms Dissolve oxygen, Eutrophication, Acid rain, Smog, and Bioaccumulation with suitable chemical reaction. (CO1)

(3)

- (b) Define the terms Ecological succession, Disaster, Biosphere, Producers and Decomposers. (CO1)
- (c) Discuss the solid waste management practices. (CO1)
5. (a) Discuss the key points of Indian Wildlife Protection Act (IWPA 1972). (CO3)
- (b) Write the basic principle of Solar energy and Hydropower Energy and their advantages and disadvantages. (CO3)
- (c) Discuss the few government policy for women empowerment and child welfare. (CO3)

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