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Roll No. 2394081

TEV-201

B. TECH. (SECOND SEMESTER)

MID SEMESTER

EXAMINATION, March, 2024

ENVIRONMENT SCIENCE

Time : 1½ Hours

Maximum Marks : 50

Note : (i) Answer all the questions by choosing any *one* of the sub-questions.

(ii) Each sub-question carries 10 marks.

1. (a) What is Environmental Science ? Explain its multidisciplinary nature and why is it essential in today's world ? (CO1)

OR

- (b) Describe the concept of an ecosystem. What are the main components of an ecosystem, and how do they interact with each other ? (CO1)

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(2)

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2. (a) Explain the concept of renewable and non-renewable resources. Provide examples of each and discuss their importance for sustainable development. (CO1)

OR

- (b) Describe the significance of energy resources and the challenges associated with meeting increasing energy needs. Discuss the use of alternate energy sources for sustainable development. (CO1)
3. (a) How does modern agriculture contribute to land degradation and biodiversity loss ? (CO1, 2)

OR

- (b) Define the ecological pyramid and its types with a suitable figure. (CO1,2)
4. (a) Define Food Chain and Food Web. Differentiate between grazing and detritus food chain with example. (CO2)

(3)

OR

(b) Write an explanatory note on various threats leading to loss of biodiversity. Explain the in-situ/ex-situ conservation methods. (CO2)

5. (a) Discuss the importance of water resources and the causes associated with their over-utilization. Provide methods for water conservation. (CO2)

OR

(b) Discuss the role of individuals in conserving natural resources. (CO2)