

H

Roll No.

TEV-101

**B. TECH. (COURSES)
(FIRST SEMESTER) END SEMESTER
EXAMINATION, Jan., 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) Explain the components of ecosystem with suitable diagram. (CO1)
(b) Define the Ecological Succession. Explain the basic steps of ecological succession.

(CO1)

P. T. O.

(2)

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- (c) Explain the Pond ecosystem with their components and suitable figure. (CO1)
2. (a) Define the Biodiversity. Explain the Ecosystem diversity; Genetic diversity and Species diversity. Discuss the National parks and Sanctuaries. (CO2)
- (b) Write the major threats to the Forest and Forest conservation practices. (CO2)
- (c) Define the Atmosphere, Habitat, Lithosphere, Niche and Biosphere with suitable examples. (CO2)
3. (a) Define the Noise pollution, their sources and their effects. (CO2)
- (b) Explain the Biogas plant, Vermi composting waste manage practices with suitable figure. (CO2)
- (c) Define the water pollution, sources of water pollution and water treatment methods. (CO2)
4. (a) Explain the formation of Acid rain, and Photochemical smog with suitable chemical reaction and their effects. (CO1)

(3)

- (b) Differentiate between the following :

(CO1)

- (i) Food chain and Food web
- (ii) Natural Ecosystem and Artificial Ecosystem
- (iii) Pollution and Pollutant
- (iv) London smog and Los Angeles smog
- (v) Manmade disaster and Natural disaster

- (c) Write minimum *ten* points to justify the demerits of Hydropower Dams in Himalayan region. (CO1)

5. (a) Explain the role of Information and Technology in Environment and Human Health. (CO3)

- (b) Write notes on women empowerment and child welfare programs running in India.

(CO3)

- (c) Discuss the major points of the Indian Wildlife Protection Act (IWPA 1972).

(CO3)

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