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TEV-201

(b) Discuss the women empowerment and child welfare programs are conducted by the Government of India. (CO3)

(c) Discuss the role of Information and Technology in Environment and Human health. (CO3)

TEV-201

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TEV-201

**B. TECH. (SECOND SEMESTER)
END SEMESTER EXAMINATION,
July/Aug., 2022**

ENVIRONMENTAL SCIENCE (CHE)

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 Biotic and Abiotic components of eco system with diagram.

(CO1)

P. T. O.

(2)

TEV-201

- (b) Define the Ecological Succession. Explain the Hydrosere ecological succession with suitable diagram. (CO1)
- (c) Explain the aquatic ecosystem with their components and suitable figure. (CO1)
- 2. (a) Define the Ecosystem diversity; Genetic diversity and Species diversity and Explain the In-situ and Ex-situ conservation methods. (CO2)
- (b) Write the values of Forest and details Rain Water harvesting system with suitable figures. (CO2)
- (c) Define the Food chain, Biosphere, Atmosphere, Habitat and Food Web with suitable examples. (CO2)
- 3. (a) Define the Noise pollution, their sources and their effects. (CO2)
- (b) Define the Solid waste. Explain the Gasification and Pyrolysis primary methods with suitable figure. (CO2)

(3)

TEV-201

- (c) Define the Pollution, Pollutants, Sources Air Pollution, Sources of water pollution and Smog. (CO2)
- 4. (a) Define the Acid rain, Ozone layer depletion, and Photochemical smog with suitable chemical reaction. (CO1)
- (b) Differentiate between the following : (CO1)
 - (i) Manmade disaster and Natural Disaster
 - (ii) Natural Ecosystem and Artificial Ecosystem
 - (iii) Producers and Decomposers
 - (iv) Biosphere and Biosphere reserve
 - (v) Detritus and Grazing Food Chain
- (c) Discuss the Merits and Demerits of Hydropower Dams in Himalayan region. (CO1)
- 5. (a) Write in brief about the Indian wild life Protection Act (IWPA 1972). (CO3)

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