

# END TERM EXAMINATION

SECOND SEMESTER [B.TECH] JUNE-JULY 2023

Paper Code: EMES-112

Subject: Environmental Studies

Time: 3 Hours

Maximum Marks: 75

Note: Attempt five questions in all including Q.No.1 which is compulsory.  
Select one question from each unit. Assume missing data.

- Q1 Attempt any five questions. (3x5=15)
- a) Write short note on Ecological Pyramids.
  - b) What are the causes of habitat loss? Give some examples.
  - c) How does the energy flow across an ecosystem?
  - d) Distinguish between Primary and secondary air pollutants
  - e) How can you expand food resources?
  - f) Briefly describe the steps to prevent a landslide.
  - g) What are the hotspots of biodiversity?
  - h) Define human rights.

## UNIT-I

- Q2
- a) What are producers? Discuss their role in the environment. (5)
  - b) What distinguishes a desert ecosystem from others? What types of plants and animals are found in a desert? (5)
  - c) Explain the meanings of genetic, species and ecosystem diversity. (5)
- OR
- Q3
- a) Explain the concept of food chain and food web along with suitable diagram. (8)
  - b) Why biodiversity is important for people? State the major threats to biodiversity. (7)

## UNIT-II

- Q4
- a) Distinguish between renewable and non-renewable sources of energy with suitable examples (5)
  - b) Describe solar energy and its potential as alternative source of energy with reference of India. (5)
  - c) Discuss briefly the major environmental impacts of dams. (5)
- OR
- Q5
- a) Discuss the causes and effects of deforestation. (5)
  - b) What are the problems and effects of modern agriculture? (5)
  - c) What is drought? Why does it occur? (5)

## UNIT-III

- Q6
- a) Describe types and application of mineral resources. (5)
  - b) What are the major sources of water pollution? Discuss. (5)
  - c) Write down some methods for reuse and recycling of solid wastes. (5)

P.T.O.

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**OR**

- Q7 Write short notes on **any three** of the followings: (3x5=15)
- a) Global warming
  - b) Photochemical smog
  - c) Acid rain
  - d) Plastics and marine pollution

**UNIT-IV**

- Q8
- a) Population and environment are interconnected. Explain. (5)
  - b) What do you mean by climate change? How does it originate? (5)
  - c) Write a note on depletion of ozone layer. (5)

**OR**

- Q9
- a) What do you know about Kyoto Protocol? Discuss. (5)
  - b) Explain the role of government and non-government organizations in public awareness on environmental protection (5)
  - b) Describe two case studies related to the air pollution in India. (5)

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