

**END TERM EXAMINATION**

FIRST SEMESTER [B.TECH] DECEMBER 2024-JANUARY 2025

Paper Code: BS-109

Subject: Environmental Studies

Time: 3 Hours

Maximum Marks: 60

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

- Q1 Attempt all parts:- (12)
- Differentiate between in-situ and ex-situ conservation principles.
  - Write a short note on Eutrophication?
  - What do you understand about the concept of sustainable development?
  - Discuss the advantages of wasteland reclamation.
  - Discuss the effects of secondary pollutants on the biosphere.
  - Give differences between food chain and food web with examples.

**UNIT-I**

- Q2 Write short notes on:- (12)
- Chipko movement
  - Cauvery Water Dispute
  - Desertification

- Q3 (a) "Natural ecosystems are more stable than man-engineered ecosystems" Explain this statement. (6)
- (b) Differentiate between Biopiracy and bioprospecting? (6)

**UNIT-II**

- Q4 (a) How is vermicomposting better than conventional composting used for biodegradable solid waste? (6)
- (b) "Minerals are finite and declining resource". Comment. (6)

- Q5 (a) What are the causes of landslides? Discuss its consequences. (6)
- (b) What is a disaster? Briefly explain how human activities act as a catalyst in a natural disaster? (6)

**UNIT-III**

- Q6 (a) Explain the role of nuclear energy for the betterment of human civilization. (6)
- (b) Discuss the phenomenon of global warming, along with its effects and control measures? (6)

- Q7 (a) Write an explanatory note on urban problems related to energy. (4)
- (b) What is an ozone hole? How is it formed? What are the causes of ozone hole formation? What are the effects of the ozone layer? What remedial measures do you suggest? (8)

**UNIT-IV**

- Q8 (a) Explain the term 'population explosion'. Enumerate its effects. (3)
- (b) What do you understand about 'human rights'? List the important Articles of the 'Declaration of Human Rights, 1948' adopted and proclaimed by the United Nations. (5)
- (c) Explain the objectives of the family welfare programme. (4)

- Q9 (a) What are the objectives of the universal Declaration of Human Rights by the United Nations? (6)
- (b) Describe the various roles of Information technology in the protection of human health and the environment? (6)