

**Seventh Semester B.E. Degree Examination, Feb./Mar. 2022**  
**Energy and Environment**

Time: 3 hrs.

Max. Marks: 100

**Note:** Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. List and explain different forms of Energy. (10 Marks)  
 b. Explain briefly the factors affecting India's Energy development. (10 Marks)

OR

- 2 a. Discuss briefly the Demand and Consumption of coal in India. (10 Marks)  
 b. Explain the various key Energy trends in India. (10 Marks)

Module-2

- 3 a. Explain various Thermal Storage Systems. (10 Marks)  
 b. Explain the principles of Energy Management System. (10 Marks)

OR

- 4 a. Define Energy Audit and explain different phases involved in detailed Energy Audit Methodology. (10 Marks)  
 b. What is Energy Management? Discuss Energy Management System and Energy Management Clarified Objectives. (10 Marks)

Module-3

- 5 a. What is Environment? Explain its Multidisciplinary Nature. (10 Marks)  
 b. Explain Scope and importance of Environment for Public awareness. (10 Marks)

OR

- 6 a. Explain structure and functions of Ecosystems. (10 Marks)  
 b. Write a short note on : i) Ecological Pyramid ii) Forest Ecosystem. (10 Marks)

Module-4

- 7 a. Discuss the causes, effects and control measures of Water Pollution. (10 Marks)  
 b. Discuss Solid Waste Management Techniques. (10 Marks)

OR

- 8 a. Explain the causes, effects and control measures of Soil Pollution. (10 Marks)  
 b. Discuss the role of an Individuals in preventions of Pollutions. (10 Marks)

Module-5

- 9 a. Write a note on : Ozone Layer Depletion. (10 Marks)  
 b. What are the Regulation governing the Water Pollution Prevention Act? (10 Marks)

OR

- 10 a. Write a short note on : i) Global warming ii) Acid rain. (10 Marks)  
 b. Explain the needs for Reclaiming the wasteland and its development. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
 2. Any revealing of identification, appeal to evaluator and/or equations written eg. 42+8 = 50, will be treated as malpractice.

