

CBCS SCHEME

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18ME751

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? Explain 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 for 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)

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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.