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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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