Time: 3 hrs.

18ME751

Max. Marks: 100

Seventh Semester B.E. Degree Examination, Jan./Feb. 2023 **Energy and Environment**

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

Module-1

- (04 Marks) Differentiate between Energy and Power. 1 (06 Marks) b. Explain different forms of Energy.
 - c. Explain the key trend in India Energy Scenario. (10 Marks)

OR

a. List the factors affecting India's Energy Development. (96 Marks) b. Explain the demographic policy of Energy in India. (06 Marks) Explain Energy process and affordability. (08 Marks)

Module-2

- a. Explain the necessity of Thermal Energy Storage system with suitable examples.
 - (10 Marks) b. Explain any Two Mechanical Energy storage systems with neat diagram. (10 Marks)

OR

a. Define Energy Management. Explain the Principles of Energy Management. (10 Marks) Explain the type of Pre - audit and Detailed audit. (10 Marks)

Module-3

- What is need for studying Environmental issues? (06 Marks) b. What is the scope of Environmental education? (06 Marks)
 - How would Environmental awareness help to protect our Environment? (08 Marks)

OR

- Write a short notes on
 - iii) Arctic Tundra. (10 Marks) i) Tropical rain forest ii) Savannas
 - b. What are the Ecological pyramids? Explain why some of these pyramids are upright while others are inverted in different ecosystem. (10 Marks)

Module-4

- Briefly describe the sources, effects and control of noise pollution. (10 Marks) (10 Marks)
 - What are the natural and man made pollutants that cause Air pollution?

OR

- Write a short note on:
 - (10 Marks) ii) Love canal tragedy. i) Bhopal gas tragedy
 - How can you as an individual, prevent environmental pollution? Why such an effort at (10 Marks) individual level is important?

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Module-5

- a. What are the major implications of enhanced global warming? Explain.
 - b. Write a critical note on Nuclear Holocaust.

(10 Marks)

(10 Marks)

OR

10 a. Discuss the salient features of:

....

- i) Wild Life (Protection) Act 1972.
- ii) Forest (Conservation) Act 1980.

(10 Marks)

b. What are the different methods to propagate Environmental awareness in the Society?

(10 Marks)

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