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Seventh Semester B.E. Degree Examination, Jan./Feb. 2023

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

OR

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

Module-2

- 3 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

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

Module-3

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

OR

- 6 a. Write a short notes on : (10 Marks)
 - i) Tropical rain forest
 - ii) Savannas
 - iii) Arctic Tundra.
- 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

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

OR

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

Module-5

- 9 a. What are the major implications of enhanced global warming? Explain. (10 Marks)
b. Write a critical note on Nuclear Holocaust. (10 Marks)

OR

- 10 a. Discuss the salient features of :
i) Wild Life (Protection) Act 1972. (10 Marks)
ii) Forest (Conservation) Act 1980. (10 Marks)
b. What are the different methods to propagate Environmental awareness in the Society? (10 Marks)
