

# CBCS SCHEME

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18ME751

## Seventh Semester B.E. Degree Examination, June/July 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. Define energy and power. Explain forms of energy. Definition : Energy : Ability or capacity to do work. (10 Marks)
- b. List and explain factors affecting India's energy development. (10 Marks)

OR

- 2 a. Explain energy production and trade. (10 Marks)
- b. Explain key energy trends in India. (10 Marks)

### Module-2

- 3 a. List and explain thermal energy storage methods. (10 Marks)
- b. Explain demographics policy with social and environmental aspects. (10 Marks)

OR

- 4 a. Explain economic analysis of an investment project. (10 Marks)
- b. Explain energy audit and methodology with respect to process Industries. (10 Marks)

### Module-3

- 5 a. Define environmental with multidisciplinary nature of environment. (10 Marks)
- b. Define ecosystem with structure and function of ecosystem. (10 Marks)

OR

- 6 a. Explain need for public awareness about environment. (10 Marks)
- b. Explain ecological pyramid with suitable neat sketch. (10 Marks)

### Module-4

- 7 a. List and explain causes and control measures of air pollution. (10 Marks)
- b. List the pollution case study. Briefly explain any one case study. (10 Marks)

OR

- 8 a. Explain role of individual in prevention of pollution. (10 Marks)
- b. Explain thermal pollution and nuclear Hazards. (10 Marks)

### Module-5

- 9 a. Explain acid rain and causes of acid rain with suitable chemical reactions. (10 Marks)
- b. List and explain the methods of waste land reclamation. (10 Marks)

OR

- 10 a. Explain about air pollution and prevention acts in India. (10 Marks)
- b. Explain issues involved in enforcement of environmental legislation. (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.