

**CERTIFICATE IN ENERGY
TECHNOLOGY AND MANAGEMENT
(CETM)**

Term-End Examination

June, 2025

**OEY-003 : ENERGY MANAGEMENT : AUDIT
AND CONSERVATION**

Time : 3 Hours

Maximum Marks : 70

Note : Attempt any **seven** questions. All questions carry equal marks.

1. What is the concept and purpose of Energy Audit ? List down the information to be collected during detailed energy audit. 10
2. (a) Identify the energy conservation measures in transport sector. 5
(b) Explain in brief the energy conservation in commercial buildings. 5

3. (a) Give the significance of power factor correction. 5
- (b) Explain the term 'Return on Investment'. 5
4. (a) What is energy management ? Explain its principles. 5
- (b) Describe in brief the energy conservation aspects in ventilation systems. 5
5. Differentiate the types of electric heating methods along with its applications. 10
6. How is energy conservation beneficial to the environment ? 10
7. Explain in brief the energy audit of a wire manufacturing industry. 10
8. (a) Discuss the methodology for rural energy planning. 5
- (b) Describe any *four* energy efficient devices used to conserve energy. 5

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9. Write short notes on any *two* of the following : 2×5=10

- (a) Optimal mix of renewable energy technologies
- (b) Thermal energy balance
- (c) Desert coolers

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