

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

Term-End Examination

December, 2023

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

Time : 3 Hours

Maximum Marks : 70

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

1. Explain the principles of energy audit. Also explain the process of detailed energy audit. 10
2. How the energy could be conserved by adopting good housekeeping measures ? 10
3. Enlist various energy audit equipments to measure electrical parameters. Explain the working principles of any *one* of them. 10

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4. Distinguish between the following : 5+5
- (a) Present worth method and future worth method
 - (b) Short-term measures and long-term measures
5. Explain in brief any *ten* energy conservation measures applicable in Vanaspati Industries. 10
6. Describe the mechanism of cooling process in desert coolers. 10
7. Discuss in detail the objectives of integrated rural energy planning in India. 10
8. What are the various alternatives available for Chulha ? Explain in detail. 10
9. Write short notes on any *two* of the following : 5+5
- (a) PV-biogas based power generation.
 - (b) Loading of motors
 - (c) Payback period

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