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OEY-003

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

**Term-End Examination
June, 2023**

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

Time : 3 Hours

Maximum Marks : 70

Note : (i) *Attempt any seven questions.*

(ii) *All questions carry equal marks.*

1. Distinguish between the following : 10
 - (a) Renewable energy source and Non-renewable energy source
 - (b) Thermometer and Thermocouple
2. Discuss the principles of developing Energy Balance. Why is it important for Energy Auditors ? 10
3. Elaborate the basic principles of Integrated rural energy planning. 10

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4. Explain in brief the short-term alternatives to conserve energy in steel industries. 10
5. Discuss the advantages of optical mix of renewable energy technology with the help of a suitable example. 10
6. (a) Explain the process of evaporative cooling. 5
(b) How do the flow and speed measuring equipments help in energy audit ? 5
7. How does Inflation rate affect the payback period ? Derive the expression for payback period considering inflation rate. 10
8. Discuss the energy conservation measures applicable in transport sector. 10
9. Write short notes on any **two** of the following : 5×5=10
 - (a) Animal Power
 - (b) Energy Management
 - (c) Sankey Diagram

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