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OEY-001

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

Term-End Examination

December, 2023

**OEY-001 : ENERGY RESOURCES AND
CONVERSION PROCESSES**

Time : 3 Hours

Maximum Marks : 70

Note : *Answer any **seven** questions. All questions carry equal marks. Use of scientific calculator is permitted.*

1. Describe, in detail any *three* conventional energy resources. 10
2. Discuss in detail the various active and passive applications of solar energy. 10
3. Explain, in detail, the operation and maintenance of a biogas plant. 10
4. What is greenhouse effect ? Explain the major contributors which cause this effect. 10

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5. Name some biofuels and explain the 2nd and 3rd generation biofuels. 10
6. Discuss, in detail, the characteristics of anthracite and bituminous coal. 10
7. Explain the effect of moisture content and ash content on the gasification process of biomass. 10
8. Explain, in detail, the working of an aero-generator. 10
9. Enlist some energy conservation measures in transport. 10