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OEY-001

**CERTIFICATE IN ENERGY
TECHNOLOGY AND MANAGEMENT**

(CETM)

Term-End Examination

December, 2021

**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 *four* conventional energy sources. 10
2. Enlist the various renewable energy sources and give their advantages and disadvantages. 10
3. Explain the steps involved in the process of bio-methanation with the help of a flowchart. 10

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4. Explain, in detail the process parameters affecting the biogas production. 10
5. Discuss the various direct energy conversion processes. 10
6. Explain how the wind energy can be utilized for water pumping and off grid power generation. 10
7. Describe in brief fossil fuels. What are the advantages and disadvantage of fossil fuels ? 10
8. Discuss in detail the significance of nuclear energy in the present scenario and also give its environmental impact. 10
9. Write short notes on the following : 2×5=10
 - (a) Geothermal energy
 - (b) Tidal energy

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