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OEY-001

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

**Term-End Examination
December, 2020**

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

Time : 3 Hours

Maximum Marks : 70

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

1. Describe in brief the fossil fuels. Write down advantages and disadvantages of fossil fuels. 10
2. List down various renewable energy sources and give their advantages and disadvantages.

10
3. Describe the construction and working of a photovoltaic (PV) solar cell. Mention some materials used as semiconductors in PV cells. 10

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4. Explain, in detail, the process parameters affecting biogas production. 10
5. Discuss in detail the significance of nuclear energy in the present scenario and also give its environmental impact. 10
6. Define Biofuels and explain 1st and 2nd generation biofuels. 10
7. Explain the construction and working of a fuel cell along with its components. 10
8. Write short notes on the following : 5, 5
 - (a) Geothermal energy
 - (b) Wind energy