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OEY-001

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

**Term-End Examination**

**June, 2024**

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

*Time : 3 Hours*

*Maximum Marks : 70*

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

(ii) All questions carry equal marks.

(iii) Use of scientific calculator is permitted.

1. Describe in detail the scope of oil and natural gas as an energy source. 10
2. Discuss the advantages and disadvantages of renewable energy. 10
3. Describe in detail the various process parameters that effect biomass production. 10

4. Taking into account your everyday life, give your detailed suggestions on how much energy you can save everyday and by what means you can do so ? 10
5. Enlist a few energy conservation measures in lightening. 10
6. Differentiate among low, medium and high temperature solar collectors. 10
7. What is charcoal ? Discuss its prominent properties. 10
8. Explain the principle and operation of hydrogen fuel cell. 10
9. Write short notes on the following : 5+5=10
  - (a) Tidal energy
  - (b) Nuclear energy

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**P.T.O.**