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**OEY-001**

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

**Term-End Examination  
June, 2020**

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

*Time : 3 Hours*

*Maximum Marks : 70*

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

*(ii) All questions carry equal marks.*

*(iii) Use of scientific calculator is permitted.*

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1. Define the following : 2 each
- (a) Specific Heat
  - (b) pH factor
  - (c) Power
  - (d) Calorific Value
  - (e) Low Grade Energy

P. T. O.

2. Discuss in detail low, medium and high temperature solar collectors. 10
3. Define fossil fuels. Write down advantages and disadvantages of fossil fuels. 10
4. List down the various process parameters affecting biogas production and explain any *one* of them. 10
5. Discuss the advantages and disadvantages of : 10
  - (a) Solid fuels
  - (b) Liquid fuels
6. Name and describe the *two* different types of wind machines commonly in use. 10
7. Elaborate the concept of tidal energy and its applications. 10
8. Define charcoal and enlist its main characteristics. 10
9. Discuss the influence of human activities which result in "Green House Effect." 10