No. of Printed Pages: 2

OEY-001

Maximum Marks: 70

CERTIFICATE IN ENERGY TECHNOLOGY AND MANAGEMENT (CETM)

Term-End Examination

00593

Time: 3 hours

December, 2018

OEY-001: ENERGY RESOURCES AND CONVERSION PROCESSES

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

- Enlist various forms of renewable energy and describe any two of them in detail.
- 2. Discuss in detail, active and passive solar energy applications.
- 3. What are the most important properties that affect the pyrolysis/gasification of biomass?

 Explain the effects of any two of them.

4.	Discuss the effect of organic loading rate and pH value of feed on biogas production.	10
5.	Explain in detail, the scope of wind solar hybrid system.	10
6.	Enumerate the advantages and disadvantages of tidal energy.	10
7.	What are biofuels ? Describe 1 st and 2 nd generation biofuels.	10
8.	Elaborate the steps involved in biomethanation process with a neat sketch.	10
9.	Discuss in detail, the benefits of hydrogen as a fuel.	10