## CERTIFICATE IN ENERGY TECHNOLOGY AND MANAGEMENT (CETM)

## □□□□□□ Term-End Examination

## June, 2019

## 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, the three types of thermal solar collectors. 10 Discuss in detail, all types of classification of 2. biomass. 10 'hydraulic retention 3. How do time' and 'temperature' factors affect biogas production? Explain. *10* 

4.	Discu		impact	of	biomass	on	the	10
	envir	onment.						10
5.	Explain the principle on which wind machines work. Name the types of wind machines with							
	suitable sketches.							10
6.	Describe the working and construction of a fuel cell.							10
7.	Discuss in detail, the scenario of animal energy in							
	India.							10
8.	Elaborate the concept of geothermal energy and its applications.							10
9.	(a) Name the materials which can be used feed for biogas digesters.						ed as	5
	(b)	Explain production		ıges	involved	in bi	iogas	5