CERTIFICATE IN ENERGY TECHNOLOGY AND MANAGEMENT (CETM) Term-End Examination

December, 2019

OEY-001: ENERGY RESOURCES AND CONVERSION PROCESSES

Time : 3 hours		70 —	
Note: (i) Answer any seven questions. (ii) All questions carry equal marks.			
1.	Describe in detail any three conventional energy resources.	10	
2.	How is coal classified? Discuss in detail the characteristics of lignite and anthracite.	10	
3.	What is a solar collector? Differentiate between low, medium and high temperature solar collectors.	10	
4.	How is biogas produced? Describe various components of a biogas production plant.	1	
5.	Explain the principle of tidal energy and enlist its advantages and disadvantages.	1	
6.	Describe the process of photoelectric energy conversion with a neat diagram.	1	
7.	Name and describe two different types of wind machines generally used.		
8.	Explain 'first law of thermodynamics'. Discuss energy conversion processes in an automobile.	l	