CERTIFICATE IN ENERGY TECHNOLOGY AND MANAGEMENT (CETM)

Term-End Examination

00513

June, 2018

OEY-001: ENERGY RESOURCES AND CONVERSION PROCESSES

Time: 3 hours Maximum Me		ırks : 70	
Note: Answer any seven questions. All questions carry equal marks. Use of calculator is permitted.			
1.	Describe in detail any two conventional energy sources.	y 10	
2.	Discuss in detail the various applications of hydrogen as a fuel.	f 10	
3.	Explain the advantages and disadvantages o liquid fuels.	f <i>10</i>	
4.	Describe the process of photoelectric energy conversion with a neat diagram.	y 10	
5.	Discuss the importance of biogas in rural areas.	10	
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6.	Calculate the theoretical amount of air required for the combustion of (a) propane (C ₃ H ₈)	
	(b) butane (C_4H_{10}) having 0.04 % oxygen.	10
7.	Explain the princiadple and application of geothermal energy.	10
8.	Explain the wind energy utilization for water pumping and off-grid power generation.	10
9.	Describe in detail the significance of nuclear energy in the present scenario and also give its	
	environmental impact.	10