No. of Printed Pages : 2

CERTIFICATE IN ENERGY TECHNOLOGY

AND MANAGEMENT (CETM)

00548 Term-End Examination

June, 2016

OEY-001 : ENERGY RESOURCES AND CONVERSION PROCESSES

Time : 3 hours

Maximum Marks : 70

Note: Answer any seven questions. All questions carry equal marks.

1. Briefly explain the following :

- (a) Energy
- (b) Solar Collector
- (c) Organic Loading Rate
- (d) Power Factor
- (e) Low Grade Energy
- 2. Name and describe briefly the different forms of renewable energy. 10

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P.T.O.

5×2=10

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3.	Expla collec	ain the major types of thermal solar ctors.	10
4.	Explain the environmental impacts of nuclear energy and photovoltaic solar energy.		
5.	Explain the steps involved in the process of bio-methanation with the help of a flowchart.		
6.	Discuss a water pumping windmill along with its advantages and limitations.		10
7.	(a)	What are the materials that can be fed to bio-gas digesters ?	5
	(b)	Explain briefly the process occurring in the digester and the material coming out of it, along with bio-gas.	5
8.	Describe in brief fossil fuels. What are the advantages and disadvantages of fossil fuels?		10
9.		does a wind machine work ? Also, explain ifferent types of wind machines.	10

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