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OEY-002

CERTIFICATE IN ENERGY TECHNOLOGY AND MANAGEMENT (CETM)

00265

Term-End Examination

December, 2014

OEY-002: RENEWABLE ENERGY TECHNOLOGIES AND THEIR USES

Time: 3 hours		Maximum Marks: 70	
Note: Attempt any five questions in all. All question carry equal marks.			
1. (a)	Explain built-in-storage so with neat schematic diagra		
(b)	Define the following terms Direct radiation Diffused radiation Global radiation 	: 7	
2. (a) (b)	What are the key component photovoltaic system? applications of solar photovoltain the operation of solar street lighting system.	Describe the voltaic. 7	
3. (a)	What is pyrolysis? Class pyrolysis.	sify the types of 7	
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	(b)	Name the different types of biogas plants. Describe the fixed dome biogas plant with neat sketch and indicate its application.		
4.	(a)	Give merits and demerits of various drying techniques.		
	(b)	Categorize the solar building systems. Also write main features of each.		
5.	(a)	Define the following terms: 7×1=7 (i) Kirchhoff's Law of radiation (ii) Solar constant (iii) Payback period		
	(b)	 (iv) Pickup efficiency (v) Efficacy (vi) Thermosyphon (vii) Angle of incidence Draw the voltage-current characteristics of 		
		a solar cell. Write different factors on which the efficiency of a PV module depends.		
6.	Write	e short notes on any two of the following: $2 \times 7 = 14$		
	(a)	Green Building Design		
	(b)	Solar Greenhouse		
	(c)	Global Warming and its effect on environment		