CERTIFICATE IN ENERGY TECHNOLOGY AND MANAGEMENT (CETM)

Term-End Examination December, 2021

		OEY-002 : RENEWABLE ENERGY			
TECHNOLOGIES AND THEIR USES					
Tir	ne : 3	hours Maximum Marks:	Maximum Marks : 70		
N o		Attempt any five questions. All questions can equal marks.	rry		
1.	(a)	Explain the construction and working of box type solar cooker.	7		
	(b)	Explain the working of evacuated tube collector. Also write its advantages.	7		
2.	(a)	Explain photovoltaic effect. Also, draw and explain the I-V characteristics of a solar cell.	7		
	(b)	Describe the construction and working of			

OEY-002 1 P.T.O.

solar lantern.

3.	Expla detai	ain different biomass conversion processes in il.	14
4.	(a)	Discuss the three main stages of drying processes.	7
	(b)	What are the different modes of drying which are widely practised? Explain.	7
5.	(a)	Describe the following: (i) Evaporative Cooling (ii) Trombe Wall	7
	(b)	Describe the difference between open and closed loop solar water heating system.	7
6.	(a)	Explain greenhouse effect and global warming.	7
	(b)	Describe the concept of daylighting.	7
7.	Write follow	e short notes on any two of the wing: $2 \times 7 = 1$	=14
	(a)	Solar Still	
	(b)	Non-porous Type Solar Air Heater	
	(c)	Pyrolysis	