Reg. No.:										
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Question Paper Code: 98763

B.E./B.Tech. DEGREE EXAMINATION, MAY 2022

One credit

Mechanical Engineering

19UME863- Solar Energy

(Regulations 2019)

(Common to All branches)

Duration: 1.30 minutes Maximum: 50 Marks

Answer All Questions

PART A - (10x 2 = 20 Marks)

	PART A - ($10x 2 = 20$ Marks)			
1.	What is energy and specify the types of energy?	CO1- R		
2.	What are all the energy alternatives are available?	CO1- R		
3.	List any four solar energy collection devises.	CO1- R		
4.	What do you mean by renewable energy sources	CO1-	R	
5.	What is solar bond?	CO2- R		
6.	How power plant works?	CO2- R		
7.	How solar cooker works?	CO2- R		
8.	How solar still works?	CO2- R		
9.	How solar energy used in agriculture?	CO3- R		
10.	What are all the advances in solar energy?	CO3- R		
	PART - B (3 x 10= 30Marks)			
11.	(a) Explain in detail how the solar energy is converted in to useful electrical energy	CO1-U	(10)	
	Or			
	(b) Classify the devises for solar energy collection units and explain.	CO1-U	(10)	
12.	(a) Explain with neat sketch about solar power plant Or	CO2-U	(10)	
	(b) Explain in detail about solar air conditioning	CO2-U	(10)	

13 (a) Summarize the developments in solar energy CO1-U (10)
Or
(b) Illustrate the economic analysis of solar energy in detail. CO1-U (10)