



R18 Regulation *Subject code: 206CB*
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
 (Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VI Semester Supplementary Examinations, July 2024

SOLAR ENERGY APPLIANCES
(ME)

Maximum Marks: 70

Date:30.07.2024 Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks		(10X2M=20 Marks)	CO	Bloom Tx
1	What is Solar Cell?		1	L1
2	List out different applications of Solar Lighting systems.		1	L1
3	What are different types of Solar cookers?		2	L1
4	How testing is done for a Solar cooker?		2	L1
5	What is solar drying list the advantages and disadvantages of solar drying?		3	L1
6	What are the main applications of a solar dryer?		3	L1
7	Write about Solar Still?		4	L1
8	What is the necessity of Solar Desalination.		4	L1
9	List out various applications of Solar furnaces.		5	L1
10	Write about Heliostat?		5	L1

Part-B

Answer All the following questions.		(5X10M=50Marks)		
11	Discuss about Rural electrification process with a case study. [10]		1	L2
	OR			
12	Sketch and explain about Solar Lanterns. [10]		1	L3
13	Explain the advantages, disadvantages and applications of Solar cooking systems. [10]		2	L2
	OR			
14	Illustrate Box type solar cooker with a neat sketch. [10]		2	L3
15	Differentiate between direct type and mixed mode type solar dryer. [10]		3	L2
	OR			
16	Discuss about Forced circulation type solar dryer. [10]		3	L3
17	Explain any two solar desalination techniques. [10]		4	L3
	OR			
18	Explain the materials problems in solar still. [10]		4	L3
19	Explain any two case studies on solar furnaces. [10]		5	L3
	OR			
20	Explain single concentrator furnaces with neat sketch. [10]		5	L3

