1		* 0 DEC 0000	Reg	g. No.										
		<b>9 UEL 2022</b> Ouestion Paper C	ode		11	482								
B.E. / B.Tech DEGREE EXAMINATIONS, NOV/DEC 2022														
Electrical and Electronics Engineering														
EE8703 - RENEWABLE ENERGY SYSTEMS														
(Regulations 2017)														
Duration: 3 Hours Max. Marks: 100														
$PART - A (10 \times 2 = 20 Marks)$														
		Answe	er ALL Q	juestion	15						N K-L 2	Marks, Level, CO	0	
1.	Con	pare the conventional and no	n-conven	ntional	ener	gy so	ource	es.			2,	K1.CO1		
2.	Wha	at is Sustainable development	•								2.	K1.CO2		
3.	Defi	ne Pitch angle.	1 1		lon						2.	к1.С02	,	
4.	Mer	ation the advantages of grid the	Montion	ita tun	nam	<b>.</b>					2,	K1,CO3	;	
5.	Wha	at is meant by solar collector?	f color D	V Svet	cs.	aa .					2,	K2,CO3	;	
6.	Illus	strate the I-V Characteristics C	of solar r	v Syst	çını.	16.					2,	K1,CO4	1	
/.	7. Name the constituents of blo gas.							2,	2,K1,CO4					
8. 0	Der	the advantages of tidal power	r generati	ion							2,	2,K1,CO5		
9.	Out	line the schematic of fuelcell.	Generati	·····							2,	K1,CO	5	
10.	Out	The the senematic of fuerous												
PART - B (5 × 13 = 65 Marks) Answer ALL Questions														
. 11.	a)	Explain about the different t	ypes of R OR	lenewa	ble	energ	gy (R	E) s	ouro	ces.	13	3,K1,CC	01	
	b)	Generalize the present Indian energy sources.	n and inte	ernatio	nal e	energ	y sc	enari	0 0	f sola	ar 1.	3,K2,CC	91	
12.	a)	Explain the construction an (VAWT).	d workin	ng of V	erti	cal A	xis	Win	d T	urbin	ne 1.	3,K2,CC	)2	
	b)	Summarize the Grid integrat	tion issue	es of W	ind	Powe	er Pl	ants.			1	3,K2,CC	72	
13.	a)	Explain the construction as Power Plants.	nd worki	ing pri	ncip	le of	f Ce	ntral	Re	ceiv	er 1	3,K2,C0	)3	
OR														
KI	– Rem	ember; K2 – Understand; K3 – App	ly; $K4 - A$	nalyze; i	K5 –	Evalu	ate;	K6 – (	Crea	te	11	1482		

			0			
	b)	Discuss briefly about				
		(i) Solar drying.	6,K2,CO3			
		(ii) Solar cells.	7,K2,CO3			
11	(0	Summerize the following methods of his and generation				
17.	a)	(i) Gasification	6,K2,CO4			
		(i) Casification	7,K2,CO4			
		(II) Anaerooic Digestion				
		OR				
	b)	Outline in detail, the operation of pumped storage hydro power plant.	13,K2,CO4			
15	2)	Explain in detail the operation of single basin and double basin type	13 K2 COS			
15.	aj	Explain in detail the operation of single basin and double basin type	15,62,005			
		idai power plant.				
		OR				
	b)	Describe the different methods of energy storage system.	13,K2,CO5			
		$\mathbf{D} \mathbf{A} \mathbf{D} \mathbf{T} = \mathbf{C} \left( 1 + 15 - 15 \mathbf{M}_{\text{rel}} \mathbf{L}_{\text{rel}} \right)$	<u> </u>			
		$\mathbf{PAKI} - \mathbf{C} (\mathbf{I} \times 15 = 15 \text{ marks})$				
11			LE VA GOA			
16.	a)	Explain the construction and working principle of solar	15, K3, CO3			
		photovoltaic system with a neat sketch.				
		OR was selected as a selected				
	b)	Summarize the various methods Maximum Power Point Tracking in				
		the Solar Photo voltais system and discuss its churches and				
		the solar rhoto voltare system and discuss its advantages and				
		disadvantages.				

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create 11482 2