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DAYANANDA SAGAR COLLEGE OF ENGINEERING

(An Autonomous Institute Affiliated to VTU, Belagavi)
Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru-560078

UG Semester End Examination

Model QP-TEMPLATE

Course: Renewable Energy Sources

Course Code: IEEE76/IEAU76 Maximum marks: 100
Semester: VII Duration: 3 hours

Maximum of 4 sub questions are allowed

		Marks			
1	1. Solar radiations can be converted to Electricity by	1 x 20			
	2. Heating effect of solar radiations called as				
	3. Wind, solar and hydro energy sources are called as				
	4. Device which converts wind to electricity is				
	5. Defused solar radiations means				
	6. Direct solar radiations means				
	7. The component of solar radiation responsible for heat is				
	8. Thermal power plant converts to electricity				
	9 Energy of water is used for generation of electricity				
	10. The place Raichur, Karnataka is well known for power plant				
	11. The best storage device for electricity is				
	12. Bio-Gas can be produced from				
	13. The place, Shivana samudra is well known for power plant.				
	14. What energy of ocean is used to convert electricity?				
	(Total 20 questions of 1 mark each from all the 5 units will				
	be asked)				
2	(a) List out and describe the different types of energy sources available in nature	08			
	(b) Describe the Advantages and Applications of solar energy				
		08			
3	(a) With a neat sketch describe the basic working principle of Solar Cell or	08			
	Photovoltaic Cell				
	(b) List out the Advantages and Disadvantages of Vertical axis and Horizontal	08			
	axis wind energy conversion machines				
4	(a) Classify the Bio-Gas plants and explain any two types.	08			
-	(b) Briefly discuss about the Advantages and Limitations of Bio-Gas power plant	08			
5	(a) Briefly discuss about the main components of Tidal power plant	08			
5	(b) Briefly discuss about the Advantages and Disadvantages of Tidal power plant	08			

	(OR)			
	(a) With the help of a block diagram explain the Hybrid type of Ocean Thermal			
	Energy power generation	08		
	(b) Describe the comparison between Tidal power plant and OTEC system in the			
	view of energy conversion			
6	(a) Briefly discuss about the construction and working of Fuel Cell	08		
	(b) Write a short note on Conversion of Hydrogen into Electricity and its	08		
	applications			
	(OR)			
	(a) With block diagram explain the concept of wave energy	08		
	(b) List out the Benefits of Battery Energy Storage Systems	08		

***********Model Question paper*******