COMMITTED WINDOW

## Paper / Subject Code: 42874 / Renewable Energy Systems (DLOC - III)

	5 :	Describe the following briefly,  (i) Factors affects the efficiency of PV cells and  (ii) Factors affects the Life cycle of solar PV cell.	10
	C.V. of methor Retention per collected/cow/kg/m³, Biogas 0.8.	C.V. of methane 25 MJ/m <sup>3</sup> , Burner efficiency 55 %, Number of cows = 7, Retention period = 27 days, Temperature of fermentation = 30°C, Day matter collected/cow/day = 1.5 kg, Density of matter in the fluid in the digester = 50 kg/m <sup>3</sup> , Biogas yield=0.25 m <sup>3</sup> / kg of dry input, Methane production in Biogas =	atter = 50
6	a	Describe the solar space heating and cooling.	10
	b	Differentiate between the vertical and horizontal axis wind turbine.	5
	c	Describe the working principle of Solar PV cells.	5

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