Roll No. _____

END SEMESTER EXAMINATION
SEMESTER-V

COURSE CODE : EEE-607 | **DURATION : 3 (THREE)HRS**
COURSE TITLE : RENEWAL ENERGY SOURCES | **MAXIMUM MARKS : 75**
SESSION : JULY-DEC'2021 | **PASS MARKS : 35 %**

NOTE:
1. *All the questions are compulsory*
2. *Attempt any 5 (five) questions.*
3. *Mark for each question is shown against it.*
4. *Assume suitable logical data wherever necessary.*

1.	**(a)**	What is energy plantation? List out its advantages & disadvantages.	**(2+7)**
	(b)	How is maintenance done on solar water heater?	**(6)**
2.	**(a)**	What is wind energy? What are its advantages & disadvantages?	**(2+6)**
	(b)	Why is fixed dome biogas plant more popular than floating drum biogas plant?	**(7)**
3.	**(a)**	What is the need & importance of incentive?	**(6)**
	(b)	Explain the concept of bio-mass energy.	**(9)**
4.	**(a)**	How are installation & maintenance carried out on wind turbines?	**(8)**
	(b)	How does solar lantern work? Explain.	**(7)**
5.	**(a)**	What is solar energy? Explain the environmental impact of solar energy harnessing.	**(2+5)**
	(b)	Explain the various parts of HAWT.	**(8)**
6.	**(a)**	Explain the concept of solar energy system.	**(8)**
	(b)	How is hydro energy harnessed?	**(7)**
7.		Explain the following terms briefly: (a) Anaerobic fermentation (b) Cut-in speed (c) Biomass briquetting (d) Velocity index (e) CN ratio	**(5X3)**
8.	**(a)**	How is maintenance of VAWT done? Explain.	**(8)**
	(b)	Explain the scope of wind energy.	**(7)**

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