Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-1st / 2nd (SPFU) EXAMINATION- WINTER 2015

Subject Code: TEE008		Date:30/12/2015		
Subj	ect I	Name: Alternate Energy System		
Time	e: 0 2	2:30pm to 05:00pm	Total Marks: 70	
Instru	ıction	s:		
	1.	Attempt any five questions.		
	2. 3.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks		
Q.1	(a)	• • • • • • • • • • • • • • • • • • • •		07
	(b	Different between Non Renewable and Renewable Energy	'.	07
Q.2	(a)	Explain Radiation Measurement System.		07
	(b	Explain application of solar photovoltaic systems.		07
		OR		
	(b	Explain any one types of Turbines use in Microhydel powe	r plant.	07
Q.3	(a)	What is Solar Radiation? Explain application of Solar Ther	mal Systems.	07
•	(b	Site Selection Criteria for set up Wind Mill Power Plant.	·	07
		OR		
Q.3	(a)	Describe operating principle, construction and working of	Bio Gas Plant.	07
	(b	Write short note on Solar Photovoltaic systems.		07
Q.4	(a)	Advantage of Renewable Energy over Non Renewable Energy	ergy.	07
•	(b	Scenario of Renewable Energy System in India.	- 6J	07
	`	OR		
Q.4	(a)	Explain working of each component of windmill power pla	nt.	07
	(b	Explain types of Windmill with neat sketch.		07
Q.5	(a)	Explain application of Biomass.		07
	(b	How Hybrid Fuel Cells works? Explain it.		07
	`	OR		
Q.5	(a)	Explain Life Cycle Costing.		07
	(h	Differentiate LCC between Wind system and Microhydel S	vstem	07
