

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – III • EXAMINATION – SUMMER • 2013****Subject code: 733901****Date: 13-05-2013****Subject Name: Green Energy Engineering****Time: 10.30 am – 01.00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	(a)	Compare energy issues with respect to global and Indian scenario.	07
	(b)	Discuss the diversification of energy system for energy security and sustainability.	07
Q.2	(a)	Explain potential of solar energy use in India.	07
	(b)	Explain Role of energy economics to develop green energy system.	07
		OR	
	(b)	Explain the term for energy economics: Scarcity, opportunity cost, Efficiency	07
Q.3	(a)	Discuss the role of energy analysis for developing country.	07
	(b)	Discuss adverse impact of energy system.	07
		OR	
Q.3	(a)	List out the energy analysis of wind energy system.	07
	(b)	Describe the dilemma energy system.	07
Q.4	(a)	Describe the energy source based on renewal and non renewal energy.	07
	(b)	Explain energy economic issues with respect to effect of price controls and cost benefit.	07
		OR	
Q.4	(a)	Discuss energy source based on commercial and non-commercial energy.	07
	(b)	State the environmental perspectives to affect energy taxonomy.	07
Q.5	(a)	Explain: Means to Sustainability and Energy Security.	07
	(b)	Discuss energy policies & issues to determinant of energy demands.	07
		OR	
Q.5	(a)	Give the classification of energy sources with example.	07
	(b)	Explain in detail the merits and demerits of any two energy sources.	07
