

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.

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

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