Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – III • EXAMINATION – WINTER 2012

Subject code: 733901 **Date: 30-12-2012**

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)**	Explain: Means to Sustainability and Energy Security.	**07**
	(b)	Give the importance of Energy analysis.	**07**
Q.2	**(a)**	Explain green Energy and sustainability for Green Energy system.	**07**
	(b)	Explain the case study of Solar Pond for analysis of energy system.	**07**
		OR	
	(b)	Explain the case study of Wind Energy System for analysis of energy system.	**07**
Q.3	**(a)**	What is energy economics? And Explain how it is related with our societal activity.	**07**
	(b)	Explain in detail types of energy sources.	**07**
		OR	
Q.3	**(a)**	Give the importance of Renewable and non-renewable energy toward the economics and taxonomy.	**07**
	(b)	Explain the merits and demerits of any two energy sources in detail.	**07**
Q.4	**(a)**	Explain in detail how energy demand play role toward the green energy engineering.	**07**
	(b)	Explain: Policy toward Electricity in India: pricing, implications of state subsidies.	**07**
		OR	
Q.4	**(b)**	Explain the Potential for renewable energy use in India.	**07**
Q.5	**(a)**	Give description on The Dilemma energy Systems.	**07**
Q.5	**(b)**	Give the description on cases for and against privatization in electricity generation and distribution in India.	**07**

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