Seat No.:	Enrolment No.
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## GUJARAT TECHNOLOGICAL UNIVERSITY M. E. - SEMESTER - III • EXAMINATION - WINTER • 2014

Subject code: 733901 Date: 25-11-2014

**Subject Name: Green Energy Engineering** 

Time: 02:30 pm - 05:00 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) (b)	Describe the potential for solar and wind energy use in India.  Describe the composition of energy systems.	
Q.2	(a) (b)	Describe essential elements of green energy systems.  Describe the term target and solution for green energy and sustainability.  OR	07 07
	<b>(b)</b>	Describe the energy sources and their possible negative impact on environment.	07
Q.3	(a) (b)	Describe the energy analysis of solar ponds.  Describe the factors affecting green energy applications for sustainability.  OR	07 07
Q.3	(a) (b)	Describe the energy analysis of wind energy systems.  Describe the importance of energy analysis of green energy systems.	
Q.4	(a) (b)	Describe the McCkelvey classification of energy sources.  Describe the principals of energy economics.	07 07
Q.4	(a) (b)	OR  Describe the economic issues and environmental perspectives of renewable energy sources.  Describe the merits and demerits of one renewable and one non-renewable energy source.	
Q.5	(a) (b)	Describe the energy policies towards electricity in India.  Describe the energy productivity and management of energy demand.  OR	
Q.5	(a) (b)	Describe the global and Indian trends in energy demand.  Describe the case for and against privatization in electricity generation and distribution in India.	07 07

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