

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – III • EXAMINATION – WINTER • 2013****Subject code: 733901****Date: 26-11-2013****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)** Explain in detail the classification of energy sources. **07**
- (b)** Explain in detail the potential for renewable energy use in India. **07**
- Q.2 (a)** Briefly describe composition and adverse impacts of energy systems. **07**
- (b)** Describe the energy analysis of wind energy system. **07**
- OR**
- (b)** Describe the diversification and localization of energy systems. **07**
- Q.3 (a)** Describe the energy analysis of solar ponds. **07**
- (b)** Describe the economic issues of various types of energy sources. **07**
- OR**
- Q.3 (a)** Explain the importance of energy analysis of green energy systems. **07**
- (b)** Explain in detail: Energy economics. **07**
- Q.4 (a)** Describe the environmental perspectives to affect energy taxonomy. **07**
- (b)** Discuss energy policies and issues to determinant of energy demands. **07**
- OR**
- Q.4 (a)** Describe green energy and sustainability for green energy system. **07**
- (b)** Explain the policy towards the electricity in India. **07**
- Q.5 (a)** Describe the energy productivity and management of energy demand. **07**
- (b)** Describe the cases for and against privatization in electricity generation and distribution in India. **07**
- OR**
- Q.5 (a)** Discuss the global and Indian trends of energy demand. **07**
- (b)** Describe the effect of price controls and cost benefit on energy economic issues. **07**
