

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**
