

GUJARAT TECHNOLOGICAL UNIVERSITY
M. E. - SEMESTER – I • EXAMINATION – WINTER • 2014

Subject code: 2713901**Date: 07-01-2015****Subject Name: Energy Resources, Economics and Environment****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) Write a short note on Scope of development of renewable energy sources in India. **07**
(b) Explain in detail Greenhouse Gases and its effect. **07**
- Q.2** (a) Define the term energy security. Give your suggestions to achieve energy security **07**
(b) Define the environment attribute. Which type of information is required for describing Attributes? **07**
- OR**
- (b) Explain carbon credits and emission trading with its advantages and limitations. **07**
- Q.3** (a) Explain in detail the points to be considered for site selection of thermal power plant. **07**
(b) Write a short note on recent developments of Hydro Electricity power generation in India. Also mention the advantages and limitation of Hydro Electricity power generation. **07**
- OR**
- Q.3** (a) Explain biomass power generation with its benefits and barriers. **07**
(b) Write a short note on tidal energy for power generation. **07**
- Q.4** (a) What makes EIA time consuming, expensive, and subjective Exercise? **07**
(b) Write a short note on combine cycle power plant **07**
- OR**
- Q.4** (a) Explain the salient features of energy conservation act 2001 in detail **07**
(b) Write a short note on Electricity act 2003 and its features. **07**
- Q.5** (a) Write a short note on Kyoto protocol and its Kyoto mechanisms. **07**
(b) Explain payback period method and return on Investment method for financial Analysis. **07**
- OR**
- Q.5** (a) Define sustainable development and how to achieve sustainable development in EIA. **07**
(b) Enlist various natural cycles of environment and explain any one in detail along with neat sketch. **07**
