

GUJARAT TECHNOLOGICAL UNIVERSITY
ME SEMESTER II EXAMINATION – SUMMER 2017

Subject Code: 2721008**Date: 31/05/2017****Subject Name: Energy Economics and Management****Time: 02:30 PM to 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) Discuss the current global energy scenario. **07**
(b) Explain in context of energy economics **07**
1. Internal rate of return 2. Net present value
- Q.2** (a) Explain cumulative and life cycle saving. **07**
(b) Explain the process of carbon credit calculation. **07**
(b) Write short note on clean development mechanism. **07**
- Q.3** (a) Explain energy cost and energy performance. **07**
(b) Explain various methods to assess boiler efficiency. **07**
- Q.3** (a) Write short note on energy balance. **07**
(b) Write short note on energy management **07**
- Q.4** (a) What is cogeneration? Explain its importance. **07**
(b) Give energy efficiency measures in steam systems. **07**
- OR**
- Q.4** (a) Give energy efficiency measures in electrical systems. **07**
(b) Explain various waste heat recovery systems. **07**
- Q.5** (a) Give energy saving tips for fans and blowers. **07**
(b) Give applications of renewable sources for energy management. **07**
- OR**
- Q.5** (a) Give energy saving tips for lighting system. **07**
(b) Give energy efficiency measures for compressed air systems. **07**
