

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. Sem. – IInd - Examination – June/July- 2011

Subject code:1722104

Subject Name: Energy Conservation and Management

Date:01/07/2011

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) Discuss methods to improve the efficiency of thermal power plants. 07
(b) Explain co-generation systems. 07
- Q.2 (a) Explain fluidized bed combustion and discuss its advantages. 07
(b) Discuss various non conventional energy sources. 07
- OR
- (b) Briefly explain conservation of commercial energy sources 07
- Q.3 (a) Why energy storage is required? State the types of energy storage and explain any one. 07
(b) What is energy management? 07
- OR
- Q.3 (a) Discuss solar energy storage methods. 07
(b) What are various energy management techniques? 07
- Q.4 (a) Why energy audit is requiring? 07
(b) Discuss various steps of energy audit. 07
- OR
- Q.4 (a) Discuss various measures to be taken for reducing electric energy transmission losses. 07
Q.4 (b) Briefly explain energy efficient equipment. 07
- Q.5 (a) Briefly explain various factors effecting thermal performance of building. 07
(b) Explain pass out steam turbine. 07
- OR
- Q.5 (a) Why instruments are require for energy audit. 07
(b) Briefly explain energy scenario in India. 07
