

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E –IIst SEMESTER–EXAMINATION – JULY- 2012

Subject code: 1722104

Date: 14/07/2012

Subject Name: Energy Conservation and Management

Time: 10:30 am – 13:00 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 Energy Management Techniques. **07**
(b) What is the trend of power development in India in future? **07**

- Q.2** (a) Discuss different methods used to improve the performance of Thermal Power Plants. **07**
(b) Explain how power factor improvement helps to save energy. **07**

OR

- (b) Explain how Green House concept saves energy. **07**

- Q.3** (a) Explain steps in Energy Audit. **07**
(b) Explain Cogeneration Power Plant. **07**

OR

- Q.3** (a) Discuss electricity saving techniques by category of end use. **07**
(b) What is the role Energy Management? **07**

- Q.4** (a) Explain with neat sketch various methods used for combustion of pulverized coal. **07**
(b) What are the advantages of Hydro Power Plant? **07**

OR

- Q.4** (a) With neat sketch explain Fluidized Bed Combustion. **07**
Q.4 (b) Discuss various factors affecting thermal performance of buildings. **07**

- Q.5** (a) Discuss Wind Energy – As source of Energy. **07**
(b) Discuss Solar Energy. **07**

OR

- Q.5** (a) With neat sketch explain Biogas plant. **07**
(b) Define Work, Power and Energy. Give unit of Each. **07**
