



Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, May 2013
(2008 Scheme)**

08.801 – ENERGY MANAGEMENT (MPU)

Time: 3 Hours

Marks : 100

Instructions : 1) Answer **all** questions in Part A.

2) **Each** question in Part A carries 4 marks.

3) Answer **any one full** question from **each** Module in Part B.

4) **Each** question in Part B carries 20 marks.

PART – A



1. a) What is the difference between biomass and biogas ?
- b) Write short notes on energy storage plants.
- c) What are the principal forms of energy conservation ?
- d) Explain the significance of energy plantation.
- e) What is cogeneration ?
- f) Explain nuclear energy generation.
- g) Briefly explain the site selection criteria for a small hydro power station.
- h) What is a fuel cell ?
- i) What are the advantages and limitations of renewable energy sources ?
- j) Explain FBC system.

**PART – B****Module – 1**

2. a) Explain the working of a Thermal power plant with a neat sketch.
b) Discuss the principles of MHD generation.
3. a) How are biogas plants classified ? Explain them briefly.
b) List the various energy storage systems. Explain any one of them in detail.

Module – 2

4. a) Explain the different types of energy audit methods.
b) Describe briefly the energy policy in India.
5. a) Explain the significance of energy management.
b) Briefly explain energy strategies and energy planning.

Module – 3

6. a) What are the methods to be adopted to conserve electrical energy in buildings without sacrificing our essential needs ?
b) Explain the energy saving measures in an industry.
7. a) Explain energy conservation through demand side management.
b) Explain the methods to be adopted for energy conservation in agriculture.