



Reg. No. : .....

Name : .....

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

**08.801 : ENERGY MANAGEMENT (MPU)**

Time : 3 Hours

Max. Marks : 100

**Instruction :** Answer *all* questions in Part A and *any one* full question from *each* Module in Part B.

**PART – A**

1. How are biogas plants classified ?
2. List the principles of MHD generation.
3. Explain the significance of load curves.
4. What do you understand by energy optimization ?
5. What are the objectives of energy management ?
6. Explain site selection criterias for a nuclear power plant.
7. Explain pinch technology.
8. What are heat recoupators ?
9. Explain energy conservation through demand side management.
10. Explain the methods of energy conservation in agriculture.



**(10×4=40 Marks)**



## PART – B

## MODULE – I

11. a) Discuss about nonconventional energy conversion plants. 10  
b) Explain the significance of energy plantation. 10

OR

12. a) Write notes on energy storage plants and their significance. 10  
b) Explain energy conversion plants for different load requirements. 10

## MODULE – II

13. a) Discuss about the energy strategies adopted in Indian context. 10  
b) Explain energy audit. 10

OR

14. a) Explain the objectives of energy management. 10  
b) Discuss about energy management control system. 10

## MODULE – III

15. a) Discuss the principles of energy conservation. 10  
b) Explain waste heat recovery in Industries and Automobiles. 10

OR

16. a) Discuss about ECO in residential and commercial buildings. 10  
b) Explain combined cycle power generation and its significance. 10