

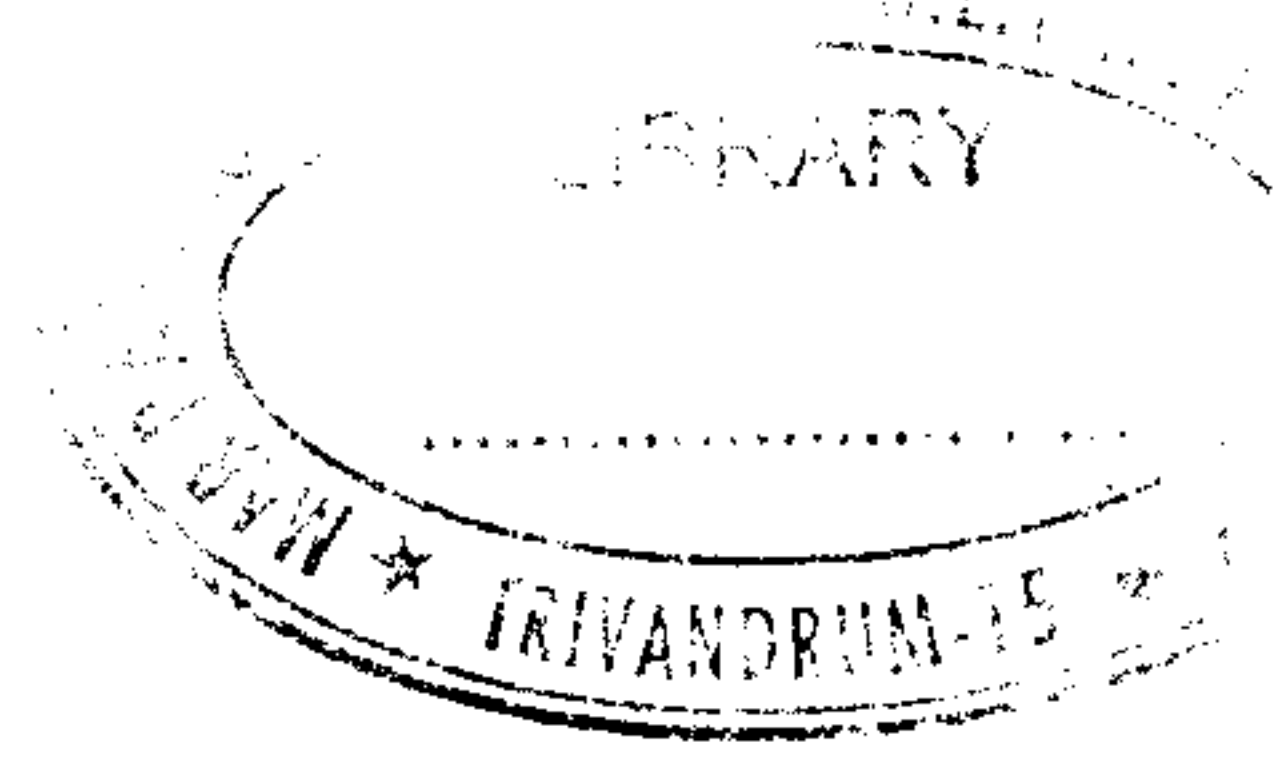


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B – 2554

Reg. No. :

Name :



**Eighth Semester B.Tech. Degree Examination, December 2016
(2008 Scheme)**

08.801 : ENERGY MANAGEMENT (MPU)

Time : 3 Hours

Max. Marks : 100

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

PART – A

1. How is energy extracted from dam-water ?
2. What are the advantages and disadvantages of nuclear fusion ?
3. Explain conversion of thermal energy to mechanical energy.
4. Discuss advantages of magneto-hydro dynamic power generation.
5. How does the fuel cell operate ?
6. What are the objectives of energy management ?
7. Discuss types of energy audit.
8. What are heat pipes ?
9. Discuss importance of energy conservation.
10. Discuss thermal energy storage. **(4×10=40 Marks)**

PART – B

Module – I

11. With a line-sketch discuss nuclear power plant showing how energy can be produced. **20**
12. Explain the principle of energy storage by flywheel in utilities. Which factor influences energy storage ? **20**

P.T.O.



Module – II

- 13. Discuss at length energy management control systems. 20
- 14. Discuss types and procedures of energy audit. 20

Module – III

- 15. Discuss waste heat recovery in detail in respect of power generation. 20
- 16. Discuss energy conservation opportunities including energy conservation measures. 20

