

Roll No

MEPS - 202
M.E./M.Tech., II Semester

Examination, June 2016

Energy Conservation And Management

Time : Three Hours

Maximum Marks : 70

Note : i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) What do you mean by Energy Conservation and also explain in detail of Energy Audit.
b) Write short note on Energy Management and Energy Conservation policy.
2. a) What are waste heat recovery boilers? Explain the need and benefits.
b) What do you mean by "Economic thickness of insulation"? Explain in details.
3. a) What is DSM? What are difference between different DSM techniques?
b) Explain briefly:
i) Pay back period
ii) Load curve analysis
4. a) How energy efficient motors are different than normal motors? Explain conversion of under loaded motor from delta to star is energy efficient.

- b) How energy conservation in transportation system can be achieved especially in electrical vehicles?
5. Explain in detail of Energy Conservation Process in Sugar Industry.
6. a) What are different technique to waste heat recovery in thermal system?
b) Discuss Electrical Energy Conservation in Domestic Gadgets.
7. a) Using suitable example explain Energy Flow Network.
b) Discuss the Check list for top management for energy audit.
8. Write short note of the following:
a) Energy conservation opportunities in cement industry
b) Material Load Energy Balance Diagram
