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Roll No

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

Examination, December 2015

Energy Conservation and Management*Time : Three Hours**Maximum Marks : 70*

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

1. a) Explain Energy Audit and discuss different type of Energy Audit.
b) Write Short Note on Energy Management and Energy Conservation Policy.
2. a) Explain in detail of Thermodynamics of Energy Conservation and also discuss its Basic Principle.
b) Explain Primary Energy Sources, Types and also explain merit and demerits of these Energy Sources.
3. a) What do you mean by Pay Back Period, explain with suitable example.
b) Explain in detail Load Management DSM.
4. a) What do you mean by Energy Efficient Electric drives, Explain Types.
b) What is the effect of Power factor in the power system? And also discuss method of power factor improvement.

5. a) Explain in detail of Energy Conservation Process in Cement Industry.
b) Explain Co-generation and what are the advantages in Energy Conservation in detail.
6. a) Draw neat & clean diagram with function of each block Explain Waste heat recovery technique.
b) Write short note on Thermal Energy audit in heating and Air conditioning.
7. a) Using suitable example Explain Energy Flow Network.
b) Explain in detail Restructuring of electric tariff from energy conservation.
8. Write short notes on (Any Two) of the following:
 - a) Energy Conservation process in Textiles
 - b) Energy Efficient motor V.S.D.
 - c) Energy Auditing Instrument.
