

Roll No

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

Examination, Decembers 2017

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 are the factors to be considered for energy monitoring?
b) What is the purpose of energy policy? Give a sample for example.
2. a) Discuss the role of energy management team.
b) Discuss the types of energy audit.
3. a) What is a purpose of predictive and preventive maintenance?
b) Discuss waste heat recovery techniques.
4. a) On what basis energy storage system are classified what is a need of energy storage.
b) How demand side management helps in energy management?

5. a) Explain payback period method of evaluation of a project.
b) Write a note on cost-benefit risk analysis.
6. a) How energy efficient motors are different from normal motors?
b) How power factor can be improved in power system?
7. a) Enumerate same measures for energy conservation in building.
b) Explain 'co-generation' and its benefits.
8. Write short notes on any two of the following:
 - a) Material load energy balance diagram.
 - b) Energy recovery in thermal systems.
 - c) Second law of thermodynamics.
 - d) Energy conservation in cement industry.
