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B.Tech IV Year II Semester (R13) Advanced Supplementary Examinations July 2018

ENERGY MANAGEMENT

(Mechanical Engineering)

Time: 3 hours Max. Marks: 70

PART - A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
 - (a) Name the different elements of costs.
 - (b) Explain law of supply.
 - (c) List the causes of depreciation.
 - (d) What is BEP?
 - (e) Name the methods of investment appraisal.
 - (f) Name the functions of energy manager.
 - (g) What is energy auditing?
 - (h) Name any four objectives of energy auditing.
 - (i) What is time value of money?
 - Name any four Indian energy policies.

PART - B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT - I

- 2 (a) What are the objectives of engineering economics?
 - (b) What do you understand by present worth by the "72 rule"?

OR

3 List and explain the conditions for present worth comparisons.

UNIT 401

4 Define depreciation. Explain any four methods of depreciation.

OR

- 5 (a) Explain with sketch break even analysis and break even chart.
 - (b) Write the difference between estimation and costing.

UNIT - III

- 6 (a) Indicate the limitations of present worth and internal rate of return methods.
 - (b) What are the steps to be considered in setting up an energy management program?

OR

- 7 (a) Explain the organizational chart for energy management.
 - (b) What is the role of energy management in process industry? Discuss.

UNIT – IV

8 State with reasons for the need of energy audit in any industry.

OR

- 9 Explain briefly:
 - (a) Energy index.
 - (b) Cost index.

UNIT - V

10 Discuss Indian energy scenario.

OR

- 11 Write short notes on:
 - (a) Domestic energy production.
 - (b) Transmission and distribution of power.

