

2106
R15

Code No: 5221AZ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M. Tech II Semester Examinations, August - 2017

ENERGY MANAGEMENT

(Thermal Engineering)

Time: 3hrs

Max.Marks:75

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

5 × 5 Marks = 25

1. a) Explain in brief the nature management. [5]
- b) Explain Energy recovery and discuss in detail. [5]
- c) Explain the Effects of Debt Financing on Cash Flows to Equity. [5]
- d) Discuss the classification of projects and explain them. [5]
- e) Explain the balance-of-system parts you'll need for a small wind electric system. [5]

PART - B

5 × 10 Marks = 50

2. Explain different roles of management and discuss significance of management system. [10]
OR
3. Write short notes on the following [10]
a) Planning b) Organizing c) Staffing d) Directing e) Controlling.
4. Explain the various Types of energy audit for manufacturing industries. [10]
OR
5. Explain the energy analysis and documentation. [10]
6. What are the various tools and techniques required for project management? Explain. [10]
OR
7. What are the capital expenditure decisions difficulties? Explain in detail. [10]
8. Discuss the guidelines of planning commission for project report. [10]
OR
9. Explain the analysis of project risks along with practical problems. [10]
10. Explain the functions various Small Wind Electric System Components. [10]
OR
11. Explain the Overview of Climate Change and Renewable Energy. [10]