R09

Code No: D2102

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH II - SEMESTER EXAMINATIONS, APRIL/MAY 2012
ENERGY MANAGEMENT
(THERMAL ENGINEERING)

Time: 3hours **Max. Marks: 60**

Answer any five questions
All questions carry equal marks
- - -

1.a) What are the various principles of Energy Management?
b) Explain the role of energy manager in process industry.

2.a) Briefly explain the basic energy concepts.
b) Explain the different analytical techniques used for energy management.

3.a) Write about energy flow networks, with diagrams.
b) What are energy conservation technologies? Explain them briefly.

4. Explain the scope, characteristics of an investment project.

5. Explain briefly the methods of evaluation of projects.

6. Explain the various solar energy collection devices with diagrams.

7. Write in detail the pros and cons of energy collection devices with diagrams.

8. Write short notes on:
   a) Wind energy
   b) Energy audit
   c) Depreciation.

****