R09

Code No: C0706

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH I SEMESTER EXAMINATIONS, APRIL/MAY-2012
ENERGY AUDITING CONVERSION AND MANAGEMENT
(ELECTRICAL POWER SYSTEMS)

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

Answer any five questions
All questions carry equal marks

\- - -

1.a) Define energy concept (audit) and give cost index in detail.
b) What are the energy conservation schemes explain them in detail.

2.a) Explain building energy audit.
b) Discuss Language of energy manager.

3.a) Give in detail organising energy management programmes.
b) Explain Loss distribution in detail.

4.a) Discuss motor energy audit with suitable examples.
b) Explain thermocouples in detail.

5. Give what is the Good Lighting system design and practice in detail with suitable example.

6.a) Discuss Rate of return.
b) Explain Energy efficient motors in brief.

7.a) Explain calculation of Simple Payback method.
b) Discuss effect of harmonics on P.F.

8. Write short notes on:
a) Methods of power factor improvement
b) Return on Investment
c) Variable speed.

* * * * * *