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

R09

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.

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