Code: 9A02808

**R09** 

## B.Tech IV Year II Semester (R09) Advanced Supplementary Examinations, July 2013 ENERGY AUDITING & DEMAND SIDE MANAGEMENT

(Electrical and Electronics Engineering)

Time: 3 hours Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Explain in detail about energy consumption.
  - (b) Discuss energy situation in world and in India.
- What is energy audit? Explain the different types of audit in detail.
- 3 (a) Explain the constructional details of energy efficient motors.
  - (b) Explain the factors that affect the efficiency of energy efficient motors.
- 4 (a) What is power factor? Discuss about the location of capacitors in improving the power factor.
  - (b) Write short notes on power factor motor controllers.
- 5 Write short notes on:
  - (a) Applications of PLC's.
  - (b) Thermocouples.
  - (c) Lighting control.
- 6 Explain in detail about:
  - (a) The time value of money concept.
  - (b) Taxes and tax credit.
- 7 Explain in detail about the different techniques of demand side management.
- 8 (a) Write short notes on strategic conservation.
  - (b) Explain the significance of load management in detail.

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