

R09

Code: 9A02808

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.
- 2 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.
