

Code: 9A02808**R09****B.Tech IV Year II Semester (R09) Regular & Supplementary Examinations April 2016****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 conservation.
(b) Discuss briefly energy situation in World and in India.
- 2 Explain in detail about energy conservation schemes.
- 3 (a) Explain the characteristics of energy efficient motors.
(b) Explain about variable duty cycle systems.
- 4 (a) Explain the effect of harmonics on power factor.
(b) What is power factor? Explain the need of power factor improvement.
- 5 Write short notes on:
(a) Good lighting system design.
(b) Lighting energy audit.
(c) Pyrometers.
- 6 Explain in detail about:
(a) Payback analysis.
(b) Depreciation.
- 7 (a) Briefly discuss about multi-utility power exchange model.
(b) What is demand side management? Explain the benefits of demand side management.
- 8 (a) What is load management? Explain its importance.
(b) Write short notes on load priority technique.
