

23455

**M.Tech 3rd Semester (Electrical Power System)
Examination, December-2017**

DEMAND SIDE ENERGY MANAGEMENT

Paper-MTEPS-302 (iii)

Time allowed : 3 hours]

[Maximum marks : 100

Note : (i) *Attempt any five questions.*

(ii) *All questions carry equal marks.*

1. What do you mean by Energy Audit ? What is the need of energy audit ? Explain the different types of energy audits in detail. 20
2. Discuss different depreciation methods in detail. 20
3. Explain energy conservation in Electrical Utilities and Industry. Also discuss conservation strategies in detail. 20
4. (a) Discuss and explain the economics of EEMs. 10
(b) Explain system life cycle direct saving and payback analysis in detail. 10
5. Explain the need of lightning level system modification and non illumination modification in detail. 20
6. (a) Discuss the selection of higher efficiency lamps for a new system in detail. 10

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- (b) Explain the characteristics of Lamps in detail. 10
7. What do you mean by space heating ? Explain Air conditioning and water heating in detail. 20
8. Explain compressed air energy storage (CAES) in detail. 20