

(b) What do you understand by energy conservation building codes ? State its objectives. **5**

8. (a) State reasons why consumers and utilities should undertake DSM in the commercial sector. Explain the measures that can be taken by the utilities for DSM in the agricultural sector. **10**

(b) Describe the issues of DSM implementation in India. **5**

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Roll No.

BB43

M. Tech. EXAMINATION, May 2019

(Second Semester)

(B. Scheme) (Re-appear)

EE(PS)

MPS506B

**ENERGY AUDIT IN POWER DISTRIBUTION
SYSTEM**

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. (a) State the objectives of O & M in power distribution system. **5**
(b) What do you understand by load scheduling and load balancing ? **7**
(c) What is Grid Management ? **3**
2. (a) Describe with a neat diagram the 33/11 kV substation equipments. **11**
(b) What are the benefits of using HVDS in power distribution sector ? **4**

Unit II

3. (a) State the objectives and functions of Energy Accounting. **7**
(b) Describe the methodology for conducting energy accounting at 11 kV feeder and LT feeders in a power distribution utility. **8**
4. (a) Describe the procedure of conducting an energy audit in power utility. **10**

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- (b) Explain the need for energy auditing by giving examples in a secondary power distribution system. **5**

Unit III

5. (a) Illustrate T & D losses and AT & C losses in a power distribution utility with an example. **7**
(b) Describe the factors that contribute to T & D losses in small towns in India. **8**
6. (a) Describe at least seven short term measures that can be taken to reduce technical losses. **9**
(b) Discuss the various metering technologies and techniques. **6**

Unit IV

7. (a) Explain in detail the objectives and functions of State Electricity Regulatory commissions. **10**

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P.T.O.