

Unit IV

7. (a) Explain term “ESCO-A Route for DSM”.
5
- (b) What is the need of DSM in power distribution system ? Explain the role of demand side management in power system while load management. 10
8. (a) Define the term “DSM”. Explain all the benefits of DSM. 5
- (b) Explain the various types of DSM Techniques. Also, discuss the emerging trends in DSM. 10

No. of Printed Pages : 04

Roll No.

BB-43

M. Tech. EXAMINATION, May 2018

(Second Semester)

(B. Scheme) (Main & 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.

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60

(3-15/4) M-BB-43

P.T.O.

Unit I

1. (a) List and explain 11/0.4 kV substation equipment. 7½
(b) Define the term “Distribution Transformer”. What are the reasons for DT failures and explain it ? 7½

2. (a) Write short notes on the following : 9
 - (i) Overhead lines
 - (ii) Grid management
 - (iii) Underground cables.
(b) List and explain the components of distribution system. 6

Unit II

3. (a) Define Energy Accounting. Explain the objectives and functions of energy accounting. 9
(b) What is the need of energy audit ? Explain the various types of energy audit. 6

4. (a) Explain the terms “Final energy Audit Report” and “Information Technology Interventions for energy accounting”. 8
(b) Define the term energy audit. Explain the procedure for conducting an Energy audit. 7

Unit III

5. (a) Explain the Long term plans for technical loss reduction, explain. 7
(b) What are the reasons for commercial losses ? Also, explain the preventive measures for commercial loss reduction. 8

6. (a) Define the term “T & D” losses. Explain all the losses which are involved in Transmission and Distribution ? 8
(b) What are the factors contributing to high technical and commercial losses, explain ? 7