

- (b) Discuss the role of DSM on consumer side : **8**

- (i) The industrial sector
- (ii) The agriculture sector
- (iii) The domestic sector
- (iv) The commercial sector

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18AA1107

M.Tech. EXAMINATION, May 2019

(First Semester)

(C. Scheme) (Re-appear)

EE(PS)

MPS527C

ELECTRIC 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) What are the reasons for DT failures and explain it. 7
(b) List and explain 66-33/11 kV substation equipment. 8
2. (a) Discuss basic distribution system. Explain the components of distribution system. 7
(b) List and explain the 11/0.4 kV substation equipment's. 8

Unit II

3. What are the difficulties in implementing distribution automation in actual practice and how these problems can be overcome ? 15
4. Explain the characteristics of distribution network. Discuss the term restoration/reconfiguration of distribution networks. 15

Unit III

5. (a) What are the short term measures for technical loss reduction ? Explain. 8

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- (b) Explain the AT and C losses in the power distribution network. 7
6. (a) Define the term energy audit. Explain the procedure for conducting an energy audit. 7
(b) Explain the problems occurred while in energy accounting and what are the solutions to overcome these problems in energy accounting. 8

Unit IV

7. (a) What is the need of DSM in power distribution system ? Explain the role of demand side management in power system while load management ? 8
(b) What of NBEM, discuss in detail ? Also, explain the advantages of NBEM ? 7
8. (a) Explain the term "NBEM and DSM" with suitable example. 7

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P.T.O.