- (b) Describe different types of emerging trends and techniques of DSM. **8**
- **8.** (a) Explain the term 'EC Act, 2001'.
 - (b) Discuss the role of DSM on consumer side : 9
 Industrial Sector, Agriculture Sector, Domestic Sector and Commercial Sector.

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Roll No.

BB-43

M. Tech. EXAMINATION, May 2017

(Second Semester)

(B. Scheme) (Main & Re-appear)

EE(PS)

MPS-506-B

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.

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Unit I

- (a) State the classification of cables and discuss their general construction.
 - (b) Explain different types of distribution system with the help of neat sketches. 8
- 2. (a) What do you mean by Grid? Explain load scheduling and dispatching. 7
 - (b) Discuss the different reasons for DT failures and their different testing.8

Unit II

- 3. (a) What is the need of energy accounting?

 Explain the various types of problems occurred and types of energy accounting.
 - (b) Explain different types of energy audit instruments with neat sketches. 7
- 4. (a) Explain the problems occurred while in energy audit. What are the solutions to overcome these problems in energy audit?7

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(b) Discuss the information technology interventions for energy accounting and Energy conservation opportunities.

Unit III

- 5. (a) Explain different types of transmission and distribution losses. Discuss their causes and effects on power system.
 - (b) What are the factors contributing to high technical and commercial losses? Discuss in brief some methods to mitigate these losses.
- 6. (a) Discuss metering and billing system in distribution system. Explain testing of energy meters.
 - (b) What are the long term plans for AT&C losses? Explain. 8

Unit IV

- 7. (a) What do you mean by DSM? Explain benefit and issues of DSM.
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