

ADVANCED CERTIFICATE IN POWER DISTRIBUTION MANAGEMENT

Term-End Examination

December, 2019

BEE-002 : ENERGY MANAGEMENT AND ITS APPLICATIONS

Time : 3 hours

Maximum Marks : 100

Note : The question paper has three parts : Part I, II and III. Answer the questions as indicated in each part. Question no. 1 is compulsory. All questions should be answered in English only. Marks are shown against each question.

PART - I

1. Give full forms of the following : 10x1=10
 - (a) ATSC
 - (b) DSM
 - (c) SERC
 - (d) PSTN
 - (e) IVRS
 - (f) NEP
 - (g) CIN
 - (h) AMR
 - (i) CRM
 - (j) GPS

2. Attempt any two of the following questions : 2x5=10
 - (a) How can you measure technical and commercial losses ?
 - (b) What is Load factor and Diversity factor ?
 - (c) Explain the terms Real-time pricing and Time of use rates.

PART - II

Attempt any five questions.

5x10=50

3. Explain in detail the ESCO route to DSM.
4. What is ERP ? Outline the benefits of ERP software system and application areas in distribution.
5. What is Energy Audit ? Explain its purpose.
6. Describe first aid treatment for electric shock.
7. Describe different arrangements to limit spread of fire in a substation.
8. Outline the reasons for failure of electricity grid when a disaster strikes.

PART - III

Attempt any two questions.

2x15=30

9. Explain in detail the software requirements of AMR.
 10. List the different tools used for customer analysis. Outline their features. How do they benefit the utilities ?
 11. Describe in detail Business Process Re-engineering.
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