

**ADVANCED CERTIFICATE IN POWER
DISTRIBUTION MANAGEMENT**

Term-End Examination

June, 2018

00073

**BEE-002 : ENERGY MANAGEMENT AND IT
APPLICATIONS**

Time : 3 hours

Maximum Marks : 100

Note : *This question paper has three parts : Parts I, II and III. Answer the questions as indicated in each part. All questions should be answered in English language only.*

PART I

Questions no. 1 and 2 are compulsory.

1. Give full forms of the following abbreviations :

10×1=10

MIMS, LEAP, ECBC, BEE, LLF, ASP, ERP, CFL,
IVRS, GIS

2. Attempt any *two* of the following questions : *2×5=10*

- (a) What is ERP ? Discuss the benefits of using ERP in power distribution utility.
- (b) What IT infrastructure is required in customer-care centre ?
- (c) Explain the software requirement of Automated Meter Reading (AMR).

PART II

Attempt any five questions.

5×10=50

3. Discuss briefly about DSM measures that can be taken in commercial and domestic sectors.
4. Describe first-aid treatment for burns.
5. List out the precautions to be taken in preventing fire from spreading in an electrical installation.
6. Mention about the hierarchy of information that SCADA system carries from substation to dispatch centre and from dispatch centre to substation.
7. What is the purpose of customer indexing ? How is the consumer code number assigned ?
8. Discuss the causes of accidents in power utilities.
9. What is global warming ? How is our energy usage influencing it ?

PART III

Attempt any two questions.

2×15=30

- 10. What is SCADA ? Discuss the usefulness of SCADA for improving the operation of a power distribution utility.**
 - 11. State and explain the use of GIS in the power distribution utility.**
 - 12. Describe the process of using the simputer/spot billing machine.**
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