

**ADVANCED CERTIFICATE IN POWER
DISTRIBUTION MANAGEMENT**

Term-End Examination

00053

December, 2018

**BEE-002 : ENERGY MANAGEMENT AND ITS
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. Question no. 1 is **compulsory**.*

PART I

1. Give full forms of the following abbreviations :

10×1=10

- (a) MRT
- (b) DTR/DT
- (c) AT&C
- (d) SCADA
- (e) AMR
- (f) PSTN

- (g) R/A
- (h) GSM
- (i) CRM
- (j) PLC

2. Attempt any *two* questions :

$2 \times 5 = 10$

- (a) What is energy balance ?
- (b) What is global warming ?
- (c) What is BPR ?

PART II

Attempt any five questions.

5×10=50

- 3. What is global warming? Explain how our energy usage is influencing it.**
- 4. What are the benefits of energy auditing for a power distribution utility? Explain.**
- 5. Discuss the benefits of demand side management for power utilities, consumers and the society.**
- 6. What are the accident reporting and investigation procedures followed in any utility?**
- 7. What is ERP? Discuss the benefits of using ERP in power distribution utility.**
- 8. What is the IT infrastructure required in a customer care centre? Explain it.**
- 9. Explain the software requirement of Automated Meter Reading (AMR).**

PART III

Attempt any two questions.

2×15=30

- 10.** What do you understand by software based distribution network planning and analysis ? What are the advantages of integrating it with GIS ?

 - 11.** Outline the IT applications involved in the functioning of customer care centres and call centres.

 - 12.** List the various steps in the process of meter reading by handheld devices. Give a brief description of each step.
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