

**ADVANCED CERTIFICATE IN POWER
DISTRIBUTION MANAGEMENT**

00225 **Term-End Examination**
December, 2014

**BEE-002 : ENERGY MANAGEMENT AND ITS
APPLICATION**

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. All questions should be answered in English language only.*

PART I

Question no.1 is compulsory.

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.

10×5=50

3. Describe the main features of LEAD.
4. What are the benefits of Energy Audit for Power Distribution Utility ?
5. Discuss the role of DSM for power utilities, consumers and the society.
6. Discuss the measures that should be taken into consideration for preventing and handling cases of electrical shock.
7. What are the techniques used for meter reading ?
8. Discuss the changes being brought about by the use of IT in the area of electricity business ?
9. What is ERP ? Discuss in brief the uses of ERP in power distribution utility.

PART III

Attempt any two questions.

2×15=30

- 10.** Explain two types of spot billing technology. What are their respective advantages and disadvantages ?
- 11.** Discuss the GIS application for load forecasting and load management.
- 12.** What IT Infrastructure is required for Customer Care Centre ?
