

**ADVANCED CERTIFICATE IN POWER  
DISTRIBUTION MANAGEMENT**

**Term-End Examination**

**December, 2012**

**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 questions as indicated in each part. All  
questions should be answered in english only.*

**PART-I**

**Question number 1 is compulsory**

**10x1=10**

1. Give full forms of the following abbreviations :

- |           |            |          |
|-----------|------------|----------|
| (a) GSM   | (b) PSTN   | (c) AMR  |
| (d) CRM   | (e) SCADA  | (f) AT&C |
| (g) RDBMS | (h) DTR/DT | (i) MRT  |
| (j) MMIS  |            |          |

2. Attempt *any two* of the following questions : **2x5=10**

- (a) For a customer, CIN is assigned as 030512900618. What does it mean ?
- (b) What is BPR ?
- (c) What is global warming ?

## PART-II

Attempt *any five* questions :

3. What are the various applications of GIS in management of Power Distribution System ? 10
4. List 5 steps each that you can take immediately to : 10
  - (a) Reduce your contribution to global warming
  - (b) Improve energy efficiency at home and at work.
  - (c) Use energy in a sustainable manner.
5. Describe the features of a good interactive consumer web site. 10
6. What are the techniques for meter reading ? 10
7. List the safety procedures you should take in each of the following cases : 10
  - (a) While replacing a fuse
  - (b) While handling a fuse
  - (c) When you are near an arc
  - (d) When you have line circuitry nearby
8. What are the tools used for customer analysis ? Outline their features. How do they benefit the utilities ? 10
9. What are the major problems and challenges faced by power utilities in implementing DSM on consumers ? 10

### PART-III

Attempt *any two* questions :

10. Explain how IT can help in reducing AT and C losses and improving the efficiency of power distribution ? Give examples. 15
  11. Write the procedure for conducting an energy audit. 15
  12. Explain the two types of spot billing technology. What are their relative advantages and disadvantages ? 15
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