

**ADVANCED CERTIFICATE IN POWER
DISTRIBUTION MANAGEMENT**

Term-End Examination

June, 2013

**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.
Attempt 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) GPS
 - (b) CIN
 - (c) CDMA
 - (d) IVRS
 - (e) HVDS
 - (f) SCADA
 - (g) GSM
 - (h) AMR
 - (i) CRM
 - (j) DSM

2. Attempt *any two* of the following questions : **2x5=10**
- (a) What is the significance of EC Act, 2001 ?
 - (b) Define kilowatt hour (kWh) and its significance:
 - (c) What is load factor and what is its significance ?

PART - II

Attempt *any five* questions.

3. Write a short note on consumer indexing and its utility. 10
4. Name 10 key areas of Information Technology (IT) interventions in distribution business. 10
5. What is IVRS ? Describe its functions and usefulness. 10
6. Discuss the major steps that should be taken for preventing and handling cases of electric shock. 10
7. What are the benefits of AMR and HHD ? 10
8. Describe the objectives and functions of energy accounting: 10
9. (a) What are the steps taken in utilities to reduce AT&C losses ? 6
(b) Calculate AT&C losses for the following case where revenue collection with reference to billed demand is 80%. 4
Given : Units Input = 100mu
Units Billed = 70mu

PART - III

Attempt *any two* questions.

10. What are the various forms of energy relevant to the power sector ? Describe with examples. 15
 11. List the various steps in the process of meter reading by Hand Held Meter (HHM) and Automatic Meter Reading (AMR). 15
 12. How does IT enabled Customer Care Centre (CCC) function ? Outline the IT applications involved in the functioning of Customer Care Centre and Call Centre. 15
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