

**ADVANCED CERTIFICATE IN POWER  
DISTRIBUTION MANAGEMENT**

**Term-End Examination**

01010

**June, 2016**

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

*Time : 3 hours*

*Maximum Marks : 100*

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**Note :** *The question paper has **three** parts : Parts I, II and III. Answer the questions as indicated in each part. Question no. 1 is **compulsory**. All questions should be answered in English only.*

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**PART I**

**1. Give full forms of the following :** **10×1=10**

- (a) GIS
- (b) SCADA
- (c) ERP
- (d) AT&C
- (e) GSM
- (f) CIN
- (g) OGC
- (h) CRM
- (i) CFC
- (j) IVRs

**2. Attempt any *two* of the following questions :  $2 \times 5 = 10$**

- (a) What is LEAP ?
- (b) Define kilowatt hour (kWh) and its significance.
- (c) Explain the importance of DSM in power distribution.

## PART II

*Attempt any five of the following questions : 5×10=50*

3. What are the benefits of AMR and HHD ? 10
4. What are IVRs ? Describe the function and usefulness. 10
5. Write a short note on consumer indexing and its utility. 10
6. Describe the objectives and functions of energy accounting. 10
7. How can IT be used in distribution business ? 10
8. Discuss the major steps taken to prevent and handle cases of electric shock. 10
9. What are the steps taken in distribution and transmission utilities to reduce AT&C losses ? 10

### **PART III**

*Attempt any **two** of the following questions :* **2×15=30**

- 10.** Explain the earthing requirements in a substation. **15**
- 11.** What steps can power utilities take for effective DSM on the consumer side ? **15**
- 12.** List the various steps in the process of meter reading by Hand Held Meter (HHM) and Automatic Meter Reading (AMR). **15**
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