

**ADVANCED CERTIFICATE IN POWER  
DISTRIBUTION MANAGEMENT**

**Term-End Examination**

**00822**

**December, 2017**

**BEE-002 : ENERGY MANAGEMENT AND IT  
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. All questions should be answered in English language only.*

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**PART I**

1. Give full forms of the following abbreviations :

*10×1=10*

GPS, CIN, GSM, PSTN, CDMA, IVRS, AMR,  
CRM, SCADA, HVDS

2. Attempt any *two* of the following questions : *2×5=10*

- (a) What is Global Warming ?
- (b) What are the benefits of energy auditing for a power distribution utility ?
- (c) Discuss the benefits of demand side management for power utilities, consumers and the society.
- (d) What accident reporting and investigation procedures are followed in your utility ?

## **PART II**

*Attempt any **five** questions.*

*5×10=50*

- 3.** Explain natural and enhanced greenhouse effect.
- 4.** Explain the need for energy accounting.
- 5.** What are the benefits of using ERP in a power distribution utility ?
- 6.** Discuss the two ways in which utilities can control load at consumer premises.
- 7.** Explain the ESCO route to DSM.
- 8.** Discuss the causes of accidents in power utilities.
- 9.** Discuss the characteristic features of a spot billing machine/simputer.

### **PART III**

*Attempt any two questions.*

*2×15=30*

- 10.** Describe the benefits of GIS for managing the power distribution system.
  - 11.** List the different types of tools used for customer analysis. Outline their features. How do they benefit the utilities ?
  - 12.** Explain how IT can help in reducing AT&C losses and improving the efficiency of power distribution.
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