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BEE-002

ADVANCED CERTIFICATE IN POWER DISTRIBUTION MANAGEMENT

Term-End Examination December, 2015

BEE-002 : ENERGY MANAGEMENT AND ITS APPLICATIONS

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. Question no. 1 is compulsory. All questions should be answered in English only. Marks are shown against each question.

PART I

1. Give full forms of the following:

 $10 \times 1 = 10$

- (a) ATSC
- (b) DSM
- (c) HVDS
- (d) PSTN
- (e) IVRs
- (f) CDMA
- (g) CIN
- (h) AMR
- (i) CRM
- (j) GPS

- 2. Attempt any **two** of the following questions: $2 \times 5 = 10$
 - (a) How can you measure Technical and Commercial losses?
 - (b) What is Load factor and Diversity factor?
 - (c) Explain the terms Real-time pricing and Time of use rates.

PART II

Att	tempt any five of the following questions: 5×10	=50
3.	Describe the objectives and functions of energy accounting.	10
4.	Describe the role of ERC in helping the implementation of DSM through power utilities.	10
5.	How can IT help in reducing ATSC losses and improving the efficiency?	10
6.	Describe the benefits of using ERP in power distribution.	10
7.	How is GIS used to map the electrical distribution network?	10
8.	Describe the features of an interactive website for utility customers.	10
9.	Discuss the measures that should be taken for preventing and handling the cases of electric shock.	10
		10

PART III

Atte	empt any two of the following questions: $2 \times 15 =$	=30
10.	What immediate, medium and long term strategies can be adopted for meeting the goal of	
	clean energy for all?	15
11.	Explain the need of energy auditing, by giving examples.	15
12.	Explain how GIS can be applied for load forecasting and load management.	15