Time: 3 Hours

**BEE-002** 

Maximum Marks: 100

P.T.O.

# ADVANCED CERTIFICATE IN POWER DISTRIBUTION MANAGEMENT

#### **Term-End Examination**

June, 2012

## BEE-002 : ENERGY MANAGEMENT AND ITS APPLICATION

Note: The question paper has three parts. Part 1, II and III.  Answer questions as indicated in each part.		
	-	PART-I
		Question number 1 is compulsory
1.	Fill (a)	in the blanks.  16x1=16  pollution can affect the natural
	(b)	balance of ecosystems in the water body.  LEAP stand for
	(c)	is simply the highest level of electricity demand in a given time-span usually in one day or one year.
	(d)	DSM means
	(e)	Accidents occur due to both of work force and

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(f)	is a natural or man - made
	event, which brings sudden great
	misfortune and disruption in normal life
	including that of the power supply.
(g)	to ,make the process suitable for electronic work flow.
(h)	is a computer system capable
	of assembling, storing, manipulating and
	displaying geographically referenced
	information by integrating data bases,
	optimizing data layering and timely data
	updates.
(i)	AMR means
(j)	CSI means
(k)	Recorder is a hand held
	terminal for meter reading.
(l)	Utilities are systems of to
( )	generateto bills and online payment for
	collection of revenue
(m)	RRMS means
(n)	EMT means
(o)	CSR stand for
(p)	CRM stand for

#### PART - II

### Answer any six questions:

6x7 = 42

- **2.** Explain the natural and enhanced green house effect.
- 3. What is the standards and labelling programme? Explain how it can help in effective demand side management?
- **4.** What are the types of the disasters and describe the impact of cyclones.
- **5.** Discuss the IT applications in metering and data acquisition.
- **6.** What is GIS? Explain how exactly can it be applied for distribution system management?
- 7. What is SCADA? Discuss its usefulness for improving the operations of a power distribution utility.
- 8. Discuss how utilities can use customer care centres and call centres to enhance customer satisfaction?
- **9.** Discuss the various steps in the process of meter reading by hand held devices.

#### PART - III

Answer any three questions.

3x14=42

- 10 Explain how the energy auditing exercise can benefit from the use of information technology with suitable examples?
- 11. Explain the major causes for fire outbreaks in a power utility. What techniques can be used for handling and preventing such fires?
- **12.** Explain the structure of Disaster Management System with suitable block diagram.
- **13.** What are the infrastructure requirements for setting up an IT enabled customer care cente?
- **14.** What are the hardware and software requirements for an , Automatic meter reading system?