P.T.O.

**BEE-002** 

# ADVANCED CERTIFICATE IN POWER DISTRIBUTION MANAGEMENT

### **Term-End Examination**

### December, 2011

## BEE-002 : ENERGY MANAGEMENT AND ITS APPLICATION

Time	: 3	hours Maximum Marks : 100
Note		The question paper has <b>three</b> parts. <b>part I</b> , <b>II and III.</b> Answer the questions as per indicated in each part.
		PART-I
1.	Qu	testion number 1 is compulsory : 16x1=16
	Fil	l in the blanks.
	(a)	The primary function of and equipment is to transfer power economically and reliably from one location to another.
	(b)	UNIT of Energy is
	(c)	is one of the most important tool for energy conservation and for achieving energy efficiency.
	(d)	ERS stand for

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(e)	is the ratio between the average
	demand and the peak demand over that
	given time.
(f)	Means the state or condition of
	freedom from danger or risk.
(g)	is a term encompassing all
	forms of technology used to generate,
	collect, transmit, process, analyse, store and
	present information to help users in taking well informed decisions.
(h)	SCADA stand for
(i)	Monthly meter reading for billing purposes
	using are carried out.
(j)	allows programmer to access
	the services provided by the operating
	system.
(k)	IVRS means
(l)	Power utilities have established
	to ensure round the clock interaction with
	the customer.
(m)	GIS means
(n)	AT and C loss means
(o)	DSM stand for
(p)	CAT means

### **PART-II**

Answer any six questions.

6x7 = 42

- 2. What is global warming? Explain how is our energy influencing it?
- 3. What are the benefits of energy auditing for a power distribution utility? Explain it.
- 4. Discuss the benefits of demand side management for power utilities, consumers and the society.
- 5. What accident reporting and investigation procedures are followed in your utility?
- 6. What is ERP? Discuss the benefits of using ERP in power distribution utility.
- 7. What IT infrastructure is required in customer care centre? Explain it.
- **8.** Explain the software requirement of Automated Meter Reading (AMR).
- **9.** Describe the process of using the simputer/spot billing machine.

#### PART-III

Answer any three questions.

3x14=42

- **10.** What is energy audit? And explain the types of energy audit with suitable examples.
- **11.** How does the IT enabled customer care centre work for customer care ?
- **12.** Explain the need for a Disaster Management Plan for your power utility. Also discuss its objectives and the scope of activities.
- **13.** Explain how data is collected in a GIS. In what form is data represented in the GIS?
- **14.** Explain the revenue realisation monitoring system and describe its importance for a utility.