Maximum Marks: 100

## ADVANCED CERTIFICATE IN POWER **DISTRIBUTION MANAGEMENT**

## Term-End Examination December, 2010

## **BEE-002: ENERGY MANAGEMENT AND ITS APPLICATION**

Time	: 3 h	ours Maximum Marks : 100						
Note		The question paper has three parts. part I , II and III.  Answer questions as indicated in each part.						
		PART - I						
	Question number 1 is compulsory:							
1.	(a)	Fill in the blanks as in the check list given						
		below using the following words: 10x1=10						
	(i)	Mod bus is a for feeder meters.						
	(ii)	SCADA is an accronym for						
	(iii)	Minimum safe distance from 33 kV line is						
	(iv)	may be the secondary impact of						
•		flood.						
	(v)	Zoning schemes are in practice for earth						
		quake and						
	(vi)	One of the objectives of energy accounting is						
		to improve, billing and collection.						

(vii)	Com	ution ne	etwork						
	occur due to erroneous factor								
	of meters.								
(viii)	i) The aggregate technical loss and								
	loss is termed as AT & C loss.								
(ix)	Installation of meters is an								
	important DSM technique.								
(x)	The National Energy scheme is								
	being implemented on voluntary basis for								
refrigerators.									
(b)	Give the full form of the following: $10x1=10$								
	(i)	MBC	(ii)	ERC					
	(iii)	IPP	(iv)	ESCC					
	(v)	PPE	(vi)	ERS					
		MRI							
	(ix)	ERP	(x)	ECBC					
PART - II									
Atte	npt a	ny five ques	stions	:		5x10=50			
	-	iefly about			res that	can be			
taken in commercial and domestic sectors.									
_									
Desc	ribe fi	irst aid trea	tment	tor bu	rn.				
List	out the	e precaution	ns to b	e taker	n in prev	renting			
List out the precautions to be taken in preventing fire from spreading in an electrical installation.									
Men	tion a	bout the hie	erarch	y of in	formatio	on that			
SCADA system carries from substation to									

substation.

2.

3.

4.

5.

despatch centre and from despatch centre to

- 6. What is the purpose of custome indexing? How is the consumer code number assigned?
- Discuss the causes of accidents in power utilities.
- 8. What is global warming? How is our energy usage influencing it?

## PART - III

Answer any two questions:

15x2=30

- 9. What IT applications can be used by the utilities to provide for customer satisfaction? Explain by giving examples.
- Give reasons why utilities should undertake DSM in agriculture. List the potential areas of energy saving in agriculture.
- 11. Discuss the measures that can be taken by various stakeholders to meet the challenges faced by power utilities in implementing DSM on consumer side.