ADVANCED CERTIFICATE IN POWER DISTRIBUTION MANAGEMENT

Term-End Examination

December, 2013

BEE-002 : ENERGY MANAGEMENT AND ITS APPLICATION

		AFFLICATION	
Time	e : 3 l	Hours Maximum Marks:	100
Not	1	The question paper has three parts. Part I , II and Answer the questions as indicated in each part. Ques number 1 is compulsory .	
		PART-I	***************************************
1.	Fill	in the blanks:	4
	(a)	DSM tools help to reduce the	
	, ,	peaks, shift the, fill the demand	
		andoverall demand	
		(strategic saving) in the context of delivering	
		the required energy services by use of less	
		energy and not a reduction in services.	
	(b)	Give full form of the following:	10
		GPS, GHGs, CIN, CFC, GSM, PAN, PSTN,	
		CFL, CDMA, ERP	
	(c)	State whether the following statements	6
		about DSM are true or false:	
		(i) DSM is a concept in which power	
		utility manages the demand for power	
		among some or all its customers to	
		meet the current or future demand.	
		(ii) DSM involves remote control of load	

management.

(iii) (iv) (v) (vi)	customer load modification.	
Answer ar	ny five of the following:	
Write five	major components of GIS.	2
What is Re	ebound effect ?	2
What is Re	serve/Production (r/p) ratio ?	2
Explain th	e ESCO route to DSM.	2
What is de	ematerialisation ?	2
Write a sh Act, 2001.	ort note on Energy Conservation (EC)	2
	kind of accidents that may take place al installations.	2
Attempt a	PART-II ny five questions :	
(b) Calc case refe Give	at are AT and C losses? ulate AT and C losses for the following as when revenue collection with a rence to billed demand is 90%. en: Units Input=100 MU as Billed=70 MU	4
What are accounting	the problems encountered in energy g ?	8

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11.	What is 'LEAP ? Describe the main features of LEAP.	8
12.	What are the benefits of an energy audit for a power distribution utility ?	8
13.	What is energy audit and what are the conditions for perfect energy audit?	8
14.	What are various actions recommended for reducing technical losses under energy audit program?	8
15.	What are the energy efficiency options for consumers for reducing energy demands?	8
	PART-III	
	Attempt any two questions:	
16.	What do you understand by software based distribution network planning and analysis? What are the advantages of integrating it with GIS?	15
16. 17.	distribution network planning and analysis? What are the advantages of integrating it with	15 15
	distribution network planning and analysis? What are the advantages of integrating it with GIS? Outline the IT applications involved in the functioning of the customer care centres and call	