DIPLOMA IN ELECTRICAL ENGINEERING (DELVI)/ADVANCED LEVEL CERTIFICATE COURSE IN ELECTRICAL ENGINEERING (ACELVI)

Term-End Examination

June, 2012

BIFE-029: POWER GENERATION SYSTEM

BIEE-029: POWER GENERATION 5151 EM								
Time: 2 hours				Maximum Marks: 70				
Not	01				pul s ory. Attem Il the questions			
1.	(a)	•			is more costly Irue / False)	than 7x2=14		
	(b)	and load	his maxir factor of	num der the cons	a consumer is mand is 1.5 kW sumer is:			
		(i) (iii)	0.751.33	(ii) (iv)	None			
	(c)	The maximum demand of a consumer is 2 kW and his daily energy consumption is 20 units. His load factor is:						
		(i)	10%	(ii)	41.6%			
		(iii)	50%	(iv)	None of the a	bove		

	(d)	The Standard Voltage for Generation in India is	
	(e)	Overall efficiency of any plant is given as	
	(f)	Maximum efficiency of thermal Power Plant is	
	(g)	Define Tarrifin brief.	
2.	(a)	Importance of non - conventional sources of energy in the present scenario.	7
	(b)	Draw the flow diagram of any non conventional source and explain it.	7
3.	(a)	Explain with neat diagram, principle of MHD Power Generation.	7
	(b)	Explain hydro Power Plant with neat diagram.	7
4.	(a)	What are the different materials used in thermal plant? Explain application.	7
	(b)	What are ID and FD, that is used in thermal plant? Draw the diagram.	7
5.	(a)	Derive power relation in wind Power Generation.	7
	(b)	Explain principle of solar PV cell.	7

6.	(a)	Explain the term Wind mills, solar cookers, solar water heater.	7
	(b)	Explain different types of solar energy cell with neat sketches.	7
7.	(a)	Explain different method of Biomass.	7
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	(b)	Explain principle of OTEC and its type.	7
8.	(a)	Explain principle of fuel cells in detail.	7
	(b)	Explain present scenario of NCER and	7