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S.E.2012 (Electrical)

Power Generation Technology (Semester - I)

Time: 2 Hours Max. M. Instructions to the candidates:				Tarks : 50	
1) 2) 3) 4)	 Solve Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8 Neat diagrams must be drawn wherever necessary. Figures to the right side indicate full marks. 				
Q1)	a)	Write short note on "jet type condenser" for the	rmal power plant	[6]	
	b)	Describe breeder type reactor with a neat sketch	ı.	[7]	
		OR			
Q2)	a)	Explain working of economiser used in thermal	power plant with the help of diagram.	[6]	
	b)	Explain closed cycle gas turbine power plant w	th neat sketch	[7]	
Q3)	a)	Explain grid connected wind energy conversion	system with the help of neat diagram.	[6]	
	b)	Give the functions of following components		[6]	
		(i) Spillways (ii) Pondage (iii) Dam (iv) Penstoo	zk		
		OR			
Q4)	a)	Differentiate horizontal axis and vertical axis wind turbine.		[6]	
	b)	What are the factors used to select the site of hydro power plant?		[6]	
Q5)	a)	Discuss the working of central receiver tower power plant used in high temperature solar		[7]	
		thermal power plants.			
	b)	Explain any three application of solar energy conversion.		[6]	
		OR			
Q 6)	a)	Explain solar cell, module, panel and array with	diagram	[7]	
	b)	Explain performance curve of PV cell with the help of I-V curves.		[6]	
Q7)	Draw schematic diagram of following power plant indicating all parts		dicating all parts	[12]	
	(a) Tidal power plant (b) Mini hydel power		Aini hydel power plant		
	(c) (Geothermal power plant (d) F	Tuel cell based generation		
		OR			
Q8)	a)	Explain interconnection of renewable energy sources into grid		[6]	
	b)	Explain geothermal power plant in details.		[6]	

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