Total No. of Questions: 8]	SEAT	Г No. :
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[5152]-542

S.E. (Electrical Engineering) POWER GENERATION TECHNOLOG

		POWER GENERATION TECHNOLOGIES	
		(2015 Pattern)	
Time	e: 2 H	[Max. Marks	: 50
Insti	ructio	ns to the candidates;	
	<i>1)</i>	All questions are compulsory.	
	2)	Figures to the right side indicate full marks.	
Q 1)	a)	Explain site selection parameters for thermal power plant.	[6]
	b)	Explain carnot cycle with PV and TS Diagram.	[6]
		OR	
Q2)	a)	Explain working of super heater with neat sketch.	[6]
	b)	With the help of diagram explain the Nuclear power plant.	[6]
Q3)	a)	What is surge tank? Explain its importance in hydro electric power pl	ant.
	b)	Derive the relation for power in wind. OR	(7)
Q4)	a)	Explain the function of following component: i) Spillways ii) Dam	[6]
	b)	ii) Dam Differentiate between horizontal axis and vertical axis wind turbine.	[7]
Q5)	a)	What is PV system? What are its advantages and disadvantages.	[7]
	b)	Explain two methods of measurement of solar radiation.	[6]

With the help of diagram explain working of central receiver tower solar b)

Write a short note on biomass energy conversion to electricity.

thermal power plant. [7]

[6]

- Discuss the working of a flat plate collector with neat sketch. **Q7**) a) [6]
 - Write short note on Ocean Thermal Energy conversion. b) [6]

OR

- Compare flat type solar collector with concentric solar collector. **Q8)** a) [6]
 - Explain grid connected renewable system and their requirements. b) [6]

Q6) a)