8

PDAS SAMEME

USN			15EE42						
		Fourth Semester B.E. Degree Examination, Dec.2018	/Jan.2019						
Power Generation and Economics									
Tin	ne: í	3 hrs.	Max. Marks: 80						
	Note: Answer any FIVE full questions, choosing ONE full question from each module.								
1	a.	8-17-17 trograph in Trow duration out							
	b.	what are the points to be considered for the selection of site in hydro po	(06 Marks)						
	c.	List out the merits and demerits of Hydro Power Plant.	(04 Marks)						
2	a.	Explain the components of high head hydroelectric power plant	with its schematic						
		arrangement.	(10 Marks)						
	b.	Explain the classification of hydro electric power plant based on water h	nead. (06 Marks)						
		Module-2							
3	a.	Mention the classification of stokers. Explain overfeed and underfeed sto	oker with diagram.						
	b.	What is Steam prime movers? Explain Impulse and Reaction turbine.	(08 Marks) (08 Marks)						
		and it describes the first the second currents.	(00 Marks)						
4	a.	OR Explain how the use of Regenerator, Intercooler and Reheater in gas – turbine power plant							
	u.	help in improvement of thermal efficiency.	(08 Marks)						
	b.	g , r r g s j s tein:	(04 Marks)						
	C.	Give the application of Diesel Power Plant.	(04 Marks)						
		Module-3							
5	a.	Mention the factors which go in favour of Nuclear Power station.	(06 Marks)						
	b.	What are the classification of Nuclear Reactor? Explain BWR with diag	ram. (10 Marks)						
	-61	OR							
6	a. b.	With a neat sketch, explain the main parts of Nuclear Reactor. Write briefly about Nuclear Waste Disposal.	(10 Marks)						
	υ.	write offerly about Nuclear waste Disposar.	(06 Marks)						
_		Module-4							
7	a.	Define the terms: i) Circuit breakers ii) Lighting arresters iii) Reactors and capacitor	(043/1-1-)						
	b.	Explain the Interconnection of power station with its advantages and dis-							
	C	V	(04 Marks)						
	C.	Write short notes on: i) Resistance Grounding ii) Reactance Grounding	nding. (08 Marks)						

ii) Solid Grounding.

(08 Marks) (08 Marks)

OR

a. Give short notes on: i) Resonant Groundingb. With neat sketch, explain single bus bar system.

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9	a. b. c.	Module-5 What are the main disadvantages and causes of poor power factor? Mention the measures by which low power factor can be avoided. Discuss the Economics of Power factor correction.		(07 Marks) (05 Marks) (04 Marks)

	b .	Mention the measures by which low power factor can be avoided.	(05 Marks)
	C.	Discuss the Economics of Power factor correction.	(04 Marks)
4.0		OR OR	
10	a.	Define Tariff. Explain different types of Tariffs.	(06 Marks)
	b.	What are the main objectives in framing a Tariff?	(06 Marks)
	C.	Explain the types of consumers and write the general form of Tariff.	(04 Marks)
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