CBCS SCHEME

USN			15EE42
10	/ <u>L</u>	Fourth Semester B.E. Degree Examination, Dec.2018/Jan.201	9
	Y.	Power Generation and Economics	
101	(/9/	
Tim	e.	Max. Max. Max. Max. Max. Max. Max. Max.	irks: 80
	C	WLORE ST	dula
	N	ote: Answer any FIVE full questions, choosing ONE full question from each mod	iuie.
		Module-1	
1	a.	Define the terms with graph; i) Hydrograph ii) Flow duration curve iii) M	Mass
			(06 Marks)
	b.	What are the points to be considered for the selection of site in hydro power plant? List out the merits and demerits of Hydro Power Plant.	(06 Marks) (04 Marks)
	C.	List out the ments and dements of frydro fower frame.	(01111111111111111111111111111111111111
		OR	
2	a.	Explain the components of high head hydroelectric power plant with its	
	1	unungement	(10 Marks) (06 Marks)
	b.	Explain the classification of hydro electric power plant based on water field.	(00 Marks)
		Module-2	
3	a.	Mention the classification of stokers. Explain overfeed and underfeed stoker with o	diagram.
	1		(08 Marks) (08 Marks)
	в.	What is Steam prime movers? Explain Impulse and Reaction turbine.	(00 Marks)
		OR	
4	a.	Explain how the use of Regenerator, Intercooler and Reheater in gas - turbine pow	
		Help III IIIpio (Ciliano Ciliano Cilia	(08 Marks)
		William at 110 W and 110 W	(04 Marks) (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 diagram.	(10 Marks)
		OR	
6	a.	With a neat sketch, explain the main parts of Nuclear Reactor.	(10 Marks)
· ·		Write briefly about Nuclear Waste Disposal.	(06 Marks)
		Module-4	
7	a.	Define the terms: i) Circuit breakers ii) Lighting arresters iii) Reactors and capacitors.	(04 Marks)
	b.	Explain the Interconnection of power station with its advantages and disadvantage	1.5
			(04 Marks)
	c.	Write short notes on: i) Resistance Grounding ii) Reactance Grounding.	(08 Marks)
	***	OR	
8	a.		(08 Marks)
•	h	9.1.1	(08 Marks)

Module-5

9	a.	What are the main disadvantages and causes of poor power factor?	(07 Marks)
	b.	1	(05 Marks)
	c.	Discuss the Economics of Power factor correction.	(04 Marks)
		Define Tariff. Explain different types of Tariffs. CMRIT LIBRARY BANGALORE 560 037	
10	a.	Define Tariff. Explain different types of Tariffs. BANGALORE	(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)