GBCS SCHEME

U	SN	TE C		17EE42
And the same	Carlot of the same		Fourth Semester B.E. Degree Examination, Feb./Mar. 2022	
CA	alia Alia	, V V	Power Generation and Economics	
7	District.	37 2		1 100
- Corre	lime	park a	hrs. Max. Ma	
		No	ote: Answer any FIVE full questions, choosing ONE full question from each mod	lule.
			Module-1	
1	l i	a.		(08 Marks)
				(06 Marks)
3	(c.	Define the term with graph i) Hydrograph ii) Flow duration curve iii) Mass curv	
				(06 Marks)
Ś			OR	
	2 2			(06 Marks)
2 7	1		With a neat schematic diagram explain working of pumped storage power plant	
7			the advantage of pumped storage power plant. What is meant by phenomenon "Water hammering"? Explain how a surge tank	(08 Marks)
				(06 Marks)
				` ′
	•		Module-2	(40.75.7.)
			Describe the working of closed cycle gas turbine power plant with a neat diagram. Give the comparision of hydro power plant with steam power plant.	(10 Marks) (05 Marks)
				(05 Marks)
			OR	0
	4 8	a.	What are the main consideration for selection of site for thermal power plant station	n : (08 Marks)
2	1	b.		(08 Marks)
₹' {	(C.	Explain the function of preheater and economizer in thermal power plant.	(04 Marks)
			Module-3	
	5 a	a. /		(10 Marks)
	1	o.	What are the classifications of nuclear reactor? Explain operation of fast breeder re	actor.
9	1			(10 Marks)
			OR	
(6 8	a.		(06 Marks)
i	l			(07 Marks)
	(Э.	Write briefly about nuclear waste disposal.	(07 Marks)
			Module-4	
le S	7 8	a .	A	(10 Marks)
	- 1	0.	With neat sketch, explain Single Bus Bar System.	(10 Marks)

2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8=50 will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

OR

8	a. Explain the interconnection of power station with its advantages and disadvantages.	. 1 \
	b. State function of i) Current limiting reactor ii) Lighting arrester iii) Fuse. (06 Ma c. Write short notes on i) Resonant grounding ii) Solid grounding. (08 Ma	rks)
9	a. Define: i) Demand factor ii) Diversity factor. b. Describe the classification of cost of electricity. c. Explain the disadvantages of low power factor. OR (04 Ma (08 Ma (08 Ma	rks)
10	 a. What are factors to be considered while deciding the number of generating units? (08 Ma b. Describe types of consumer and their tariff. (08 Ma c. Discuss the economic of power factor correction. (04 Ma 	rks)

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