Librarian Learning Resource Centre Acharya Institutes

CBCS SCHEME

USN				18EE824

Eighth Semester B.E. Degree Examination, July/August 2022 Power System Planning

		Power System Planning				
Tim	Marks: 100					
	N	ote: Answer any FIVE full questions, choosing ONE full question from each n	noaute.			
		Module-1	* *			
1	a.	Explain in detail the planning process. Also enumerate the components of plann	ing.(10 Marks)			
	b.	Explain the need and importance of load forecasting in power system. Mention	n the different			
		techniques of load forecasting.	(10 Marks)			
		OR	3			
2	a.	Explain enterprise resource planning with the module diagram.	(10 Marks)			
	b.	Write a short on: i) Reactive load forecast ii) Peak load forecast	(10 Marks)			
		Module-2				
3	a.	Explain renovation and modernization of power plants.	(10 Marks)			
3	b.	Write a short notes on : i) Rural Electrification Investment				
		ii) Credit Risk Assessment.	(10 Marks)			
		OR				
4	a.	Explain the broad options available with respect to power sector finance.	(10 Marks)			
4	а. b.	Explain the concept of clean coal technologies.	(10 Marks)			
		Module-3 Enumerate the technical and economic aspects considered for sub-station	develonment			
5	Э.	Brief about various substation bus bar schemes.	(10 Marks)			
	b.	Illustrate the advantages and disadvantages of HVDC transmission system.				
		few applications of HVDC transmission system.	(10 Marks)			
		OR				
6	0	Explain in detail the transmission planning criteria.	(10 Marks)			
6	a. b.	Explain the planning criteria for reactive power compensation.	(10 Marks)			
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		Module-4	(10 Marks)			
7	a.	Explain the benefits of deregulation. Mention the adequacy indices in Distribution System Reliability Evaluation.	(10 Marks)			
	b.	Mention the adequacy indices in Distribution bystem remaining				
		OR	(1035 1)			
8	a.	Explain the need for power system studies.	(10 Marks) (10 Marks)			
	b.	Illustrate the concept of reliability by citing a suitable reliability model.	(To Marks)			
		Module-5				
9	a.	Enumerate the demand response programmes.	(10 Marks)			
	Ь.	Enumerate the principles of electricity market.	(10 Marks)			

OR

10 a. With a relevant block diagram explain the importance of energy efficiency programme.

(10 Marks)

b. Write a short note on: i) Smart power market ii) Power pool. (10 Marks)