Q.27	What are various ways of Lighting protection?	No. of Printed Pages : 4 Roll No			
Q.28	Write the function of electro static precipitator?			125852/105852	
Q.29	What safety measures are taken in nuclear plants?	5th / Power Station			
		Subject : Electrical Power Stations			
Q.30	Describe the concept of autosynchronization.	Time : 3 Hrs. M.M. : 100			
Q.31	What are the factors considered while selecting a site for nuclear power plant?				
Q.32	Describe the concept of pit head thermal plant.	Note: Objective type questions. All questions		All guestions are	
-,	SECTION-D		compulsory	(10x1=10)	
		Q.1	Which power plant is free fr	om environmental	
Note	:Long answer type questions. Attempt any three questions out of four questions. 3x10=30	Q . 1	pollution problems?		
Q.33	Draw a general layout of a hydroelectric power plant and explain various components. State limitations of using solar power Draw a neat diagram of a diesel power plant showing all the systems. Briefly explain the function of each system.	Q.2	A universal motor can be operated on single phase or three phase supply. (True/False)		
		Q.3	Heating value of coal isapproximately.		
		Q.4	Permissible pH value of w	ater for boilers is	
Q.34	Writes short notes				
	Q.5 Overall thermal e		Overall thermal efficiency of station is in the range		
	ii) Penalty tariff and incentives	Q.6	In a steam turbine cycle, th	e lowest pressure	
Q.35 Flow diagram of power plants.			occurs in		
Q.36	Explain the comparison of all power plants.	Q.7	A 100 MW thermal power-plant will consume nearly how many tonnes of coal in one hour?		
(40)	(4) 125852/105852		(1)	125852/105852	

Q.8 Electrostatic precipitator is installed between Q.14 Define gross calorific value.and Q.15 What is meant by base load plant? Q.9 Which power plant normally operates at high Q.16 What is Peak load loadfactor? speeds? Q.17 Define Load factor Diversity factor. A. Diesel engine plant Q.18 List out different types of Distribution power B. Petrol engine plant systems. Steam turbine plant Q.19 List the method of finding out the depreciation Hydro-electric power plant cost. Q.10 An air filter is used in Q.20 What is function of air pre heater in steam power plant? A. nuclear power plants Q.21 What is SCADA? steam power plants Q.22 What is hydrology? diesel engine power plants **SECTION-C** hydro-power plants **Note:** Short answer type questions. Attempt any eight **SECTION-B** questions out of ten questions. 8x5 = 40Note: Very short answer type questions. Attempt any Q.23 Explain the function of any following ten questions out of twelve questions. 10x2=20 components of Hydro electric Power Plant. Q.11 Classify of turbines according to the action of 1) Surge Tank 2) Penstock water. Q.24 Discuss various silt preventive techniques. Q.12 State major equipments in sub-station. Q.25 What are the factors for selection of turbines? Q.13 What are the methods for improving thermal efficiency of gas turbine plant? Q.26 What is the difference between micro, and mini hydro?

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