GUJARAT TECHNOLOGICAL UNIVERSITY

PDDC - SEMESTER-III • EXAMINATION - SUMMER.2015

o		e:05/06/2015	
Time: Instru 1. 2.	et Name: Electrical Power 02.30pm-05.00pm Total Marks ctions: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	:: 70	
0.1()		0.7	
Q.1(a) Q.1(b)	Explain working and merits-demerits of Hydro power station. State and explain working principle of thermal power plant with neat diagram	07 07	
Q.2(a)	Explain basic construction of Cable.	07	
Q.2(b)	Write a short note on Gas turbine power plant OR	07	
Q.2(b)	Write a short on Combine cycle power plant.	07	
Q.3(a)	What are the different types of Insulators? Explain any one types in detail.	07	
Q.3(b)	Explain properties of good conducting material. OR	07	
Q.3(a)	Derive the equation of inductance for single phase 2 wire system	07	
Q-3(b)	Explain Resonant Grounding and Voltage transformer earthing.	07	
Q.4(a)	Give explanation about different types of equipments used in substation.	07	
Q.4(b)	Explicate schematic arrangement for Nuclear power station. OR	07	
Q.4(a)	What is String efficiency? What are the importance of sting efficiency?	07	
Q.4(b)	What are the significance of skin effect and proximity effect? Explain in detail.	07	
Q.5(a)	Describe with the help of a neat sketch the working of solar power plant. What are its salient features.	07	
Q.5(b)	Compare(i) radial distribution system(ii) ring or loop distribution system (iii) grid distribution system. Also state their applications. OR	07	
Q.5(a)	What are the advantages of Neutral Grounding? Explain the reactance grounding	07	
Q.5(b)	Clarify symmetrical and unsymmetrical spacing with and without transposition	07	
