Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY PDDC SEM-IV Examination-Nov-2011

•		Code: X41903 Name: Power Plant Engineering Time: 2.30 pm -5.00 pm Total marks: 70	Time: 2.30 pm -5.00 pm	
Instru	1. 2.			
Q.1	(a)	Discuss the unique features and advantages of high pressure boilers.	07	
	(b)		07	
Q.2	(a)	What is condenser? Classify the condenser and compare the jet type and surface type condenser.	07	
	(b)	A surface condenser is design to handle 10000 kg of steam per hour. The steam enters at 0.08 bar and 0.9 dryness and the condensate leaves at the corresponding saturation temperature. The pressure is constant throughout the condenser. Estimate the cooling water flow rate per hour; if the cooling water temperature rise is limited to 10°C. OR	07	
	(b)		07	
Q.3	(a) (b)	Explain the coal handling system of modern thermal power plant. Write note on Hydraulic ash handling system. OR		
Q.3	(a) (b)	What is pulverized fuel? Explain pulverized fuel firing system. Write note on Velox boiler.		
Q.4	(a) (b)	• • • • • • • • • • • • • • • • • • • •	07 07	
Q.4	(a) (b)	Explain internal and external water treatment.	07 07	
Q.5	(a) (b)		07 07	
Q.5	(a) (b)	Discuss the operating and performance characteristics of power plant.	07 07	
