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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (OLD) EXAMINATION - WINTER 2018

Subject Code:150905 Subject Name: Switchgear Time: 10:30 AM TO 01:00 PM Instructions:			Date: 27/11/2018 Total Marks: 70	
Q.1	(a)	Explain High resistance method to extinguish arc.		07
	(b)	How Arc is initiated and maintained between CB contacts?		07
Q.2	(a)	Write a short note on "Current Chopping".		07
	(b)	Compare minimum oil circuit breaker with Bulk oil CB.		07
		OR		
	(b)	Discuss the duties of circuit breaker.		07
Q.3	(a)	Explain any one method for power factor correction.		07
	(b)	With neat diagram explain the working of Air Blast circuit brea	aker.	07
Q.3	(a) (b)	OR Discuss various types of circuit breaker in brief. Differentiate between Circuit breaker, Fuse and Isolator.		07 07
Q.4	(a)	Compare Direct and Indirect testing of Circuit Breaker.		07
	(b)	Discuss Slepian's for arc interruption in circuit breaker.		07
		OR		
Q.4	(a)	Describe the construction, operating principle and applications Circuit Breaker.	of Vacuum	07
	(b)	What do you mean by Rated Breaking capacity and Rated Mak circuit breaker?	ing capacity of	07
Q.5	(a)	Enlist and explain in brief, "The equipment used in Testing Sta	tion".	07
	(b)	Differentiate between Routine test and Type test.		07
		OR		
Q.5	(a)	Discuss the properties of SF6 gas.		07

(b) Explain any one testing arrangement for circuit breaker, with neat diagram.