Seat No.:	Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY BE – SEMESTER – VI (OLD).EXAMINATION – WINTER 2016

		DE - SEMESTER - VI (OLD), EXAMINATION - WINTER 2010	
-		Code: 160904 Date: 26/10/2016	6
•	: 10	Name: High Voltage Engineering 2:30 AM to 01:00 PM Total Marks: 70	
mstr u	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	for the same.	07 07
Q.2	(a) (b)	of existence of minimum sparking potential in paschen's curve. Explain various theories of breakdown in solids in brief. OR	07 07
	(b)	How corona loss canbe eliminated?	07
Q.3	(a) (b)	power frequency operating condition?	07 07
Q.3	(a) (b)	Explain breakdown and filteration tests for liquid dielectric.	07 07
Q.4	(a) (b)	to control to the secondary	07 07
Q.4	(a)	Draw & explain Marx circuit and modified Marx circuit of multistage impulse generator. Discuss differences between these two.	07 07
		Explain impulse testing of power transformer with a neat diagram.	07
Q.5		governing equation for it	07
	(b)	How a sphere-gap can be used to measure high voltage? Explain the factors affecting such measurements? OR	<i>3</i> ,
Q.5	(a		07
Q.S	(a _.	arrangement to minimize errors.	07
