Seat No.:	Enrolment No.
scat 110	Lindincht 10.

GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. - SEMESTER - VI • EXAMINATION - WINTER 2012

Subj Time	ect l e: 02 cuct	code: 160904 Date: 05/01/2013 Name: High voltage Engineering 2.30 pm - 05.00 pm Total Marks: 70 ions:	
	2.	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)		07 07
Q.2	(a)		07
	(b)	What are the parameters and factors that influence such voltage measurement? Explain principle, working, advantages & disadvantages of Generating voltmeters	07
	(b)	OR Explain series capacitor peak voltmeter.	07
	(b)	Explain series capacitor peak voluneter.	U/
Q.3	(a) (b)	125KV. The load capacitor available is 1000pF. Find the series resistance and the damping resistance needed to produced 1.2/50 µs impulse wave. What is the maximum output voltage of the generator, if the charging voltage is 120 KV?	07
	(0)	OR	07
Q.3	(a) (b)		07 07
Q.4	(a) (b)	*	07 07
0.4	(a)	OR Evaloin Impulse Testing of Power Transformer	07
Q.4 Q.4	(a) (b)		07
Q.5	(a)	Explain potential dividers for impulse voltage measurement by CRO. Suggest arrangement to minimize errors.	07
	(b)		07
Q.5	(a) (b)	Explain classification of High voltage Laboratories. What are partial discharges and how are they detected under power frequency operating condition?	07 07
