Seat No.:	Enrolment No.
Scat 110	Lini dinicite 1 (0.

GUJARAT TECHNOLOGICAL UNIVERSITY BE SEM-VI Examination-Nov/Dec-2011

Subject code: 160803 Date: 25/		code: 160803 Date: 25/11/20	011
Subj	ect I	Name: Switch Gear & Protection	
Time	e: 10	.30 am -1.00 pm Total marks:	70
Instru	ction	s:	
Q.1	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Explain Arc Phenomena in case of circuit breaker and state arc	07
	(b)	interruption methods also define Recovery, Restriking and Rate of Rise of Restriking voltage. Explain construction, working and advantages of air blast circuit breaker.	07
Q.2	(a)	Explain Construction, Working Principle, Merits and Demerits of vacuum Circuit Breaker.	07
	(b)		07
	OR		
	(b)	Explain working principle of Current transformer and potential transformer.	07
Q.3	(a) (b)	Explain impedance relay with its mathematical equation and operating characteristics.	07 07
Q.3	(a)	OR State abnormalities and faults in case of generator and explain restricted earth fault protection scheme.	07
	(b)		07
Q.4	(a) (b)		07 07
Q.4	(a) (b)		07 07
Q.5	(a) (b)	Explain Translay relay with necessary diagram. State the advantages of neutral grounding and explain reactance neutral grounding method.	07 07
	OR		
Q.5	(a) (b)	buchholtz relay.	07 07
