Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII EXAMINATION - SUMMER 2016

	Subject Code:180304		Date:16/05/2016	
Tiı	me:10	Attempt all questions. Make suitable assumptions wherever necessary.	Total Marks: 7	'0
Q.1	(a) (b)	Explain V-I characteristics of Thyristor with neat diagram. What is commutation? Explain class D commutation technique.		07 07
Q.2	(a) (b)	Write a short note on Power MOSFET. Explain two transistor model of SCR.		07 07
	(b)	OR Enlist & explain different turn on methods of Thyristor.		07
Q.3	(a) (b)	Explain different performance parameters of Rectifier. Explain Characteristics and Specification of Switches. OR		07 07
Q.3	(a) (b)	Write a short note on Power diodes. With neat diagram explain purpose and operation of Freewheeli	ng diode.	07 07
Q.4	(a) (b)	Explain Series & Parallel Resonant Inverter. Explain operation of Buck-Boost Regulators. OR		07 07
Q.4	(a) (b)	Explain principal of operation of Pulse Width Modulated Inverted Write a short note on UPS.	ers.	07 07
Q.5	(a) (b)	Briefly explain Grounding & Shielding in analog circuit. Explain the working principle of Hybrid step motor. OR		07 07
Q.5	(a) (b)	Explain E-field and H-field noise. Explain construction & working of Servo motor.		07 07
