Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VIII • EXAMINATION – SUMMER • 2015

Subj	ect	code: 180304 Date:05/05/2015	Date:05/05/2015	
•		Name: Electronic System Design 0.30AM-01.00PM Total marks: 70	0	
Instruc	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	•	07 07	
Q.2	(a) (b)	1	07 07	
	(b)	Explain Class E resonant inverter in detail.	07	
Q.3	(a) (b)		07 07	
Q.3	(a) (b)	Differentiate between Electromagnetic & Solid State Relays.	07 07	
Q.4	(a)	What will be the speed in rpm of a stepper motor if it has 16 stator teeth, 12 rotor teeth and a pulse rate (St/s) of 200? Also find Step angle & Resolution of the stepper motor.	07	
	(b)		07	
Q.4	(a) (b)	Write a short note on EMC & EMI.	07 07	
Q.5	(a) (b)	Explain Series Inverter.	07 07	
Q.5	(a) (b)	1 0 00 0	07 07	
