Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-V • EXAMINATION - SUMMER 2013

Subj	ect I : 10	Code: 150203  Name: Power Electronics and Control Engineering  30 am - 01.00 pm  Total Marks: 70	
11150114	1. 2.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a)	Explain the different modes of operation of thyristor with the help of its V-I characteristics.	07
	<b>(b)</b>		07
Q.2	(a) (b)	•	07 07
	<b>(b)</b>		07
Q.3	(a) (b)		07 07
Q.3	(a) (b)	Describe timing and sequential control in welding process.	07 07
Q.4	(a) (b)	Draw and explain block diagram of 8085 microprocessor and also explain its main features.	07 07
Q.4	(a)	1	07
	(b)	1. INX 2. CNZ 3. ANA 4. DAA 5. HLT. 6. LDA 7. RLC Draw block diagram of PLC and also explain any one application of it.	07
Q.5	(a)	Enlist different types of Analog to Digital converter. Explain any one type in details.	07
	(b)	Enlist different types Digital to Analog converter. Explain any one type in details.	07
0.5	(a)	OR Evaluin working of stepper motor with necessary diagram	07
Q.5	(a) (b)		07

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