GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER – IV • EXAMINATION – WINTER 2012

Subject code: X40901Date: 03/01/201Subject Name: Microprocessor and InterfacingTotal Marks: 7Time: 02.30 pm - 05.00 pmTotal Marks: 7			
Ins	1. 2.	tions: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain block diagram of microprocessor. Draw pin diagram of microprocessor.	07 07
Q.2	(a) (b)	Explain different types of addressing modes in microprocessor. Explain what is T cycle and machine cycle with necessary example. OR	07 07
	(b)	Enlist different types of interrupts in microprocessor and explain any one.	07
Q.3	(a)	Describe Memory organization of 8085 Microprocessor with classification of memory.	07
	(b)	Explain the execution of PUSH and POP instructions with necessary flow diagram.	07
Q.3	(a)	OR Give instruction classification of 8085 with suitable example. Explain various arithmetic instructions in detail.	07
	(b)	Describe BUS organization of 8085 Microprocessor.	07
Q.4	(a) (b)	Describe various Flags in 8085 Micro processor. Describe any one method for Analog to digital conversion. OR	07 07
Q.4	(a) (b)		07 07
Q.5	(a) (b)	Write a short note on 8279 for keyboard interface. Write a short note on 8253 timer.	07 07
Q.5	(a)	OR Describe the process of Digital to Analog conversion by Binary	07
	(b)	Weighted resister method Explain different JUMP instructions giving illustrations in each case.	07
