Seat No.:	Enrolment No.

Subject Code:X40901

GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER- IV • EXAMINATION - SUMMER 2015

Date: 28/05/2015

	-	t Name: Microprocessor and Interfacing		
Time: 10.30am-01.00pm Instructions:		•	Total Marks: 70	
Ins		Attempt all questions.Make suitable assumptions wherever necessary.		
Q.1	(a) (b)	Draw pin diagram of 8085 microprocessor and Explain Each pin in details. Draw and Explain system bus architecture of 8085 microprocessor.	07 07	
Q.2	(a) (b)	Explain architecture of 8085 microprocessor with figure. Write short note on memory and I/O operations.	07 07	
	(b)	Explain flag register of 8085 microprocessor with it's applications in programming.	07	
Q.3	(a) (b)	Explain control signals in details. What is machine cycles?. Explain with example.	07 07	
		OR		
Q.3	(a) (b)	What is an Instruction cycle?. Explain with example. Define instruction. Classify instructions according to functional categories and word size.	07 07	
Q.4	(a) (b)	What is addressing modes?. Explain various addressing modes. Write an Assembly Language Programme to find sum of two 8- bits numbers which are store in Memory location 2000H and 2001H, store LSB of sum in 3000h, & MSB of sum in 3001H.	07 07	
Q.4	(a)	OR Write an Assembly Language Programme to transfer a memory Block from M.L.	07	
Ų. 4	(a)	2500H to 2504H to M.L. 3500H to 3504H.	U/	
	(b)	Write an Assembly Language Programme to arrange a series of numbers in Descending order	07	
Q.5	(a) (b)	Write an Assembly Language Programme to 2-digit BCD-to-Binary Conversion. What is an Interrupt? Explain interrupts in 8085 MP.	07 07	
		OR		
Q.5	(a) (b)	Explain 8237 DMA controller . Draw and Explain block diagram of 8255A programmable peripheral Interface.	07 07	
