Roll No.

Total Pages: 03

BT-4/M-23

44184

MICROPROCESSOR INTERFACING AND APPLICATION PC-IT-208A

Time: Three Hours]

[Maximum Marks: 75

Note: Attempt Five questions in all, selecting at least one question from each Unit.

Unit I

1. Draw neat and clean block diagram of internal architecture of 8085 microprocessor and explain the purpose of each block. Also draw the pin diagram of 8085 microprocessor.

15

- 2. (a) Explain memory read and write cycles with the help of timing diagram. 5
 - (b) What is instruction cycle? Explain instruction cycle of 8085.
 - (c) What are flag registers? Explain the purpose of flag registers of 8085.

Unit II

3. (a) Explain the various rotate instructions of 8085. 7

(3-65/11)L-44184

P.T.O.

	(b)	What are data transfer group of instructions of
		8085? Explain with suitable examples. 8
4.	(a)	Explain different instruction formats of assembly
		language of 8085.
	(b)	Explain call and return statements with suitable
		examples. 5
	(c)	How are stack operations performed in 8085 ?
		Explain with example ? 5
		Unit III
5.	(a)	What are software interrupts ? Explain each in
		brief. 7
	(b)	What are hardware interrupts in 8085 ? Explain
		each in brief. Which are level triggered interrupts?
		8
6.	(a)	What is the need of interfacing? Compare memory
		mapped and peripheral mapped I/O. 8
	(b)	Explain input interfacing in 8085 with the help of
		suitable diagram. 7
		Unit IV
7.	(a)	Explain the operation of 8255 PPI chip with its
		internal block schematic. Explain different modes
		of operations supported by 8255.

- (b) With the help of functional block diagram explain the different features available in 8279.
- 8. (a) What is DMA controller? List different registers in 8237 DMA controller and explain the purpose of each.
 - (b) Write a short note on microprocessor controlled temperature system.

