Seat No: Enrollment No: __

PARUL UNIVERSITY

FACULTY OF ENGINEERING & TECHNOLOGY

B.Tech. Summer 2018 - 19 Examination

Semester: 4 Date: 03/05/2019

	ject Code: 031 ject Name: Mi	07255 croprocessor & In	terfacing		Time: 2:00pm to 4:30pm Total Marks: 60
1. A 2. F 3. M	lake suitable ass	ht indicate full mar sumptions whereve			
4. S	tart new questio	n on new page.			
Q.1	Objective Typ 1. How many	(15)			
	a. 2	b. 4	c. 3	d. 6	
	2. Which is no a. READ	ot the control bus si b. WR		c. RESET	d. None of these
	3. What is the a. 6 bits	size of the accumu b. 8 bits	lator (register A) c.12 bits	8085 microprocessor? d. 16 bits	3
	4. How many b. 2 bytes	bytes does the follo c. 5 bytes	owing set of instru d. 1 byte	actions occupy? MVI A,	35Ha. 3 bytes
	•	processor is called ssor has 8 bit ALU	•		c. a & b.
 a. 8085 processor has 8 bit ALU b. 8085 processor has 8 bit data bus. c. 6. How much memory access by 8085 microprocessor. 					→
	7. Suppose A	=AAH,	_will be the value	of Accumulator after RI	LC.
	the9. The structu	-	type		functions are called
	12. Define mad	ipts of 8085 process thine cycle.			

- 13. Write function of READY pin.
- 14. How many times the following loop is executed?

MVI C,17H

LOOP:DCR C

JNZ LOOP

- 15. What do you mean by subroutine?
- **Q.2** Answer the following questions. (Attempt any three)

(15)

- A) Draw and explain timing diagram of MVI B, 04H.
- B) Write a note on general purpose & special purpose registers of 8085.
- C) What are the vectored interrupts? Distinguish between the hardware & software interrupts.
- D) Write a Program to design a binary down-counter to count from FFH to 00H.
- Q.3 (A) Draw the functional block diagram of internal architecture of IC 8085 and explain special purpose (07) register.

	B) Design an 8085 microprocessor system such that it should contain 8KByte of EPROM and	(08)		
	8KByte of RAM and find starting and Ending Address Range.			
	OR			
	B) Write a program to sort the following set of marks scored by ten students in a database course in Ascending order. [Data(H) 63, 41, 56, 62, 48, 5A, 4F, 4C, 56, 56]	(08)		
Q.4	A) Discuss Various addressing modes of 8085 microprocessor with example. OR			
	A) What is stack and stack pointer? Explain working of PUSH and POP instruction with suitable example.	(07)		
	B) Draw and explain the block diagram of 8255A programmable peripheral port.	(08)		