## Enrollment No: \_\_\_\_\_

## PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY B.Tech., Summer 2018 - 19 Examination

	B. I ech., Summer 2018 - 19 Examination			
Sem	Semester: 4 Date: 10/05/2019			
Subject Code: 03107257 Time: 02		Time: 02:00 pm to 04:30	2:00 pm to 04:30 pm	
Sub	ect Name: Microprocessor	Total Marks: 60	-	
	ructions:			
	Il questions are compulsory.			
	gures to the right indicate full marks.			
	ake suitable assumptions wherever necessary.			
4. 51	art new question on new page.			
0.1				
Q.1	Objective Type Questions		(15)	
	1. Which Interrupt is non-maskable in 8085 Microprocessor?			
	(a) RST7.5 (b) TRAP (c) INT (d) RST6.5			
	2. Justify 8085 is 8 – bit Microprocessor.			
	3. Give one example of Indirect addressing mode in 8085 Microprocessor?			
	4. The operating frequency of 8085 Microprocessor is, if 8 MHz	crystal in connected to		
	8085 Microprocessor?	2		
	5. Stack memory of 8085 Microprocessor operates with which mechanism?			
	(a) LIFO (b) LILO (c) FILO (d) FIF	SO .		
	6. How many t-state required to execute STA 4000h?	0		
	(a) $10$ (b) $7$ (c) $13$ (d) $4$			
	7. The content of Accumulator after execution XRA A isH.			
	8. How many address lines are available in 8086?			
	(a) 16 (b) 8 (c) 20 (d) 24			
	9. Which of the following instruction does not affect ZERO flag?			
	(a) ADD B (b) DCR B (c) SUI 20H (d) DCX B			
	10. Write RIM bit format.			
	11. Explain the significance of ALE pin.			
	12. Specify the number of times following loops are executed			
	Loop: MVI B,64 H			
	NOP			
	DCR B			
	JNZ Loop			
	HLT			
	13. Explain the function of HOLD pin in 8085 Microprocessor.			
	14. Vector location for the interrupt RST 6.5 is			
	15 register maintain the sequence of execution in 8085.			
02	Answer the following questions. (Attempt any three)		(15)	
Q.4			(13)	
	A) Give the comparison of Memory Mapped I/O and Peripheral Mapped I/O			
	B) Write a program to perform multiplication of two 8-bit numbers.			
	C) Draw 8085 Interrupt vector diagram.			
	D) Write Addressing modes of 80286.			
Q.3	A) Draw the timing diagram of instruction IN 84H which is written on memo	ory location 2065H.	(07)	
	Machine code for IN instruction is DBH.			
	B) Draw and explain block diagram of 8085 microprocessor.		(08)	
	OR			
	B) Explain the programmable peripheral interface 8255A with block diagram	1.	(08)	
0.4	A) Write 8085 program to convert binary to ASCII hex code.		(07)	
£	OR		()	
	A) Explain architecture of 8086 with all segment registers.		(07)	
	B) What is stack? Explain PUSH and POP Instruction with example.		(07)	
			(00)	