	Sr. No	*****
•	May 2019	
1	B.Tech- IV SEMESTER Reappear	
Time: 3 Hours	Microprocessor and Interfacing (CE-210C)	
Instructions: 1. 2. 3. 4.	Max. Mar It is compulsory to answer all the questions (1.5 marks each) of Part -A in short. Answer any four questions from Part -B in detail. Different sub-parts of a question are to be attempted adjacent to each other. Any other specific instructions	ks:75
4	<u>PART -A</u>	
Q1 (a) Which s	ignal of 8085 Microprocessor is used to insert wait state?	(1.5)
	role of NOP and HALT instruction with example.	(1.5)
(c) What is	UART? Explain.	(1.5)
(d) Explain	the addressing modes: Indexed, Indirect.	(1.5)
(e) What is	the role of stack pointer and program counter in MPU?	(1.5)
	handshaking? Explain	(1.5)
	e vectored interrupt? Give example	(1.5)
	ntiate between programmed I/O and memory mapped I/O.	(1.5)
	the instruction: XCHG,EI	(1.5)
	MA facility is required in microprocessor based system?	(1.5)
		(1.5)
	. <u>PART -B</u>	
XRA-A MOV I MOV I INX H QAD I	J,A H,L	(5)
(b) Expla	execution of program find the content of HL pair in the purpose of following instructions: 1 2)SIM 3) RRC 4)DAD 5)SLR	(10)
	ain BSR and I/O modes of 8255 PPI chips do you understand by instruction set? Explain all instructions of 8085 l.	(7) in .(8)
Q4 (a) Expla	ain the architecture and block diagram of 8086 microprocessor in detail. also write a program in 8086 assembly language to reverse a string.	(15)
(b) Subt	ain in detail all the modes of 8237 DMA controller. ract the 16 bit number in memory location 2002H and 2003H from the 1 umber in memory locations 2000H and 2001H. The most significant eight of the two numbers are in memory locations 2001H and 2003H. Store th	nt

•

.

. . . . result in memory location 2004H and 2005H with the most significant byte in memory location 2005H.

- Q6 (a) What are directives? Also explain various addressing modes in 8086 microprocessor. (7)
 - (b) Explain 8254 programmable interval timer in detail. (8)
- Q7 (a) Explain the architecture of 80386 microprocessor. Also explain the working of (15) Universal Asynchronous Receiver Transmitter.
