BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (MID SEMESTER EXAMINATION)

CLASS: BE BRANCH: CSE SEMESTER: V SESSION : MO/2018

SUBJECT : EC4205 MICROPROCESSORS AND MICROCONTROLLERS

TI/	۸E:	1.5 HOURS	FULL MARKS: 25
1. 2. 3. 4.	The t Cand In the Befor	JCTIONS: total marks of the questions are 30. didates may attempt for all 30 marks. hose cases where the marks obtained exceed 25 marks, the exces ore attempting the question paper, be sure that you have got the missing data, if any, may be assumed suitably.	
Q1		What is the difference between macroinstructions and mic instructions are generated by computers? How Fetch execution overlap is achieved in 8085? Explain diagram.	
Q2		Which are the status signals available in 8085? What are their for Six unpacked BCD numbers are given at random in 0C20H. We largest 6-digit number which can be formed by them and keep	rite a program to form the [3]
Q3		How a given BCD count in a register is decremented / incremented / incremented / incremented / write a program to choose only BCD numbers from a groun locations starting from OC20H and add them. Store the sum OC41H.	up of 12 bytes residing in [3]
Q4		What is meant by folded memory? How it could be avoided in system? How do you interface 2K RAM with 8085, with starting address 4	
Q5		What is the advantage of Interrupt driven I/O operation over the 100 bytes are residing in memory location starting from 24 program to output them serially at SOD pin LSB first MSB last at	400H. Write a 8085 based [3]
Q6		 Why interrupt acknowledge signal is generated by 8085 in the f i) 8085 is interrupted using vectored interrupts pins like F ii) 8085 is interrupted using non-vectored interrupt pin IN Using RST 7.5 interrupt, 16 bytes (maximum value of each data inputted through port no. 21H. Write an ISR to input each byte to BCD, again multiply it by 10 and store them in locations Ensure the interrupts are disabled after receiving 16 bytes. 	RST 5.5 RST 6.5 RST 7.5. TR a can be only 0CH) are to be [3] e, multiply by 8, convert it

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