

V Semester B.C.A. Degree Examination, Nov./Dec. 2018 (CBCS) (F + R) (2016-17 and Onwards) COMPUTER SCIENCE

BCA - 505 : Microprocessor and Assembly Language

Time: 3 Hours

Max. Marks: 70

Instruction: Answer all Sections.

SECTION - A

Answer any 10 questions :

mover any to questions :

1. What is a microprocessor?

- 2. Explain briefly about the different types of buses in 8085.
- 3. Name the flags of 8085.
- 4. Mention any two instructions which clear the contents of accumulator.
- 5. Explain any two data transfer instructions of 8085.
- 6. Compare SUB reg and CMP reg instructions.
- 7. Write an assembly language program to find the 2's complement of an 8-bit number.
- 8. Define the terms machine cycle and instruction cycle.
- 9. Define counters and time delays.
- 10. Define interrupt.
- 11. Write an assembly language program to add two bytes.
- 12. What is memory interfacing?

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Ans	wer any five questions:	5×10=50)
13.	Explain the functional block diagram of 8085 microprocessor with a neat diagram.	
14.	 a) What is addressing mode? Explain briefly the various addressing modes of 8085 microprocessor. 	
	 Explain the classification of 8085 microprocessor instructions based of word size. Give example. 	n (5+5)
15.	 a) Write an assembly language program to substract two 16 bit numbers b) Explain the instructions DAA and DAD r_p. 	(8+2)
16.	 a) With an example, explain the logical instructions of 8085 microproces. b) Calculate the time delay using a register with clock frequency of 2 MHz MVI C₁ FF LOOP DCR C- JNZ LOOP. 	Z Explai
17.	 a) Explain the different operations that can be performed on stack. b) Explain conditional CALL and RET instruction of 8085 microprocessor 	r. (5+5)
18.	a) Differentiate memory mapped I/o and peripheral mapped I/o. b) Write an assembly program to convert BCD to binary.	(5+5)
19.	a) Briefly explain the 8085 vectored interrupts. b) Write a note on RIM and SIM 8085 instructions.	(5+5)
20.	Write short notes on :	
	b) Demultiplexing of address bus in 8085.	(5+5)