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Fifth Semester B.C.A. Degree Examination, March/April 2021

(CBCS Scheme)

Computer Science

Paper XI - MICROPROCESSOR AND ASSEMBLY LANGUAGE

Time: 3 Hours] [Max. Marks: 70

Instructions to Candidates : Answer all Sections.

SECTION - A

Answer any **TEN** questions:

 $(10 \times 2 = 20)$

- 1. Define a microprocessor. What is word length of 8085?
- 2. What is the purpose of PC and SP?
- 3. MVI C, 05 is a ——— byte instruction.
- 4. Give an example for implicit addressing.
- 5. What is the purpose of DAA instruction?
- 6. Define indexing.
- 7. What is a stack?
- 8. What are interrupts?
- 9. What is I/O interfacing?
- 10. What is RIM?
- 11. What is asynchronous data transfer?
- 12. What are the priority modes of 8259?

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SECTION - B

	Answer any FIVE questions : (5 × 1		= 50)
13.	Exp	Explain the functional block diagram of 8085.	
14.	Exp	Explain in detail the various addressing modes.	
15.	(a)	Explain the ROTATE instruction.	(5)
	(b)	Draw the timing diagram for the memory Read Cycle.	(5)
16.	(a)	Explain in detail the conditional and unconditional JUMP instructions.	(5)
	(b)	Write a program to find 2's complement of a number.	(5)
17.	(a)	What are subroutines? Explain CALL and RET instructions.	(5)
	(b)	Explain PUSH and POP operations with a neat diagram.	(5)
18.	(a)	Explain SIM instruction.	(5)
	(b)	Differentiate between peripheral mapped I/O and memory mapped I/O.	(5)
19.	(a)	Explain marked and vector interrupts.	(5)
	(b)	Explain the instructions:	(5)
		(i) STAX D	
		(ii) CMP M	
20.	Write short notes on:		
	(a)	Interfacing devices	(5)
	(b)	PPI	(5)