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Reg. No.					

V Semester B.C.A. Degree Examination, April - 2022 COMPUTER SCIENCE

Microprocessor & Assembly Language

Paper: BCA 505 T

(CBCS Scheme)

Time: 3 Hours
Instructions to Candidates:

Answer all sections.

SECTION-A

Answer any Ten questions. Each question carries Two marks.

 $(10 \times 2 = 20)$

Maximum Marks: 70

- 1. What is microprocessor.
- 2. Define program counter and stack pointer.
- 3. Mention compare instructions.
- 4. What is mnemonic. Give example.
- 5. What is the difference between MOV and MVI instructions.
- 6. Name any 4 addressing modes of 8085.
- 7. Briefly explain PUSH and POP instructions.
- 8. What is a counter? Mention its types.
- 9. What are handshake signals?
- 10. Explain SID and SOD pins of 8085.
- 11. What is memory interfacing?
- 12. What is DMA?

SECTION - B

Answer any Five questions. Each carries 10 marks. (5×10=50)

13. Explain the architecture of 8085 with a neat diagram. (10)

14. a) Explain instruction set classification based on word size. (5)

b) Explain any 5 data transfer operations. (5)

P.T.O.

			(2)	15525	
15.	a)	Writ	te a program to subtract two 16 bit numbers.	(5)	
	b)	Exp	lain conditional jump instructions.	(5)	
16.	a)	Writ	te a program to find square root of a number using look up table.	(5)	
	b)	Exp	lain the different types of flags.	(5)	
17.	a)	Defi	ine subroutine. Explain CALL and RET instructions.	(5)	
	b)	Writ	te a short note on demultiplexing of address bus in 8085.	(5)	
18.	a)	Exp	lain the following instructions.	(5)	
		1.	XCHG.		
		2.	LHLD		
		3.	ADC M		
		4.	INR R		
		5.	DCR M		
	b)	Con	npare memory mapped I/O and peripheral I/O.	(5)	
19.	19. Explain the different addressing modes.				
20.	a)	Explain the different types of buses.			
	b)	Brie	fly explain error checking methods.	(5)	