



QP – 422

39  
V Semester B.C.A. Degree Examination, March/April 2022  
(Y2K14 – CBCS) (F+R)  
COMPUTER SCIENCE

BCA505 : Micro Processor and Assembly Language

Time : 3 Hours

Max. Marks : 70

**Instruction** : Answer **all** the Parts.

PART – A



(10×2=20)

Answer **any 10** questions :

1. What is a microprocessor ?
2. State different types of buses in 8085.
3. Write a brief note on program status word of 8085.
4. List any two instructions to clear the contents of accumulator.
5. Write any two conditional instructions.
6. What do you mean by DAD instruction ?
7. What is subroutine ?
8. What is I/O interfacing ?
9. Write a note on SID and SOD pins in 8085.
10. Compare POP and PUSH instructions.
11. Define maskable and non-maskable interrupts of 8085.
12. What are handshake signals ?

PART – B

Answer **any five** questions :

(5×10=50)

13. Draw the architecture of 8085 microprocessor and explain the functional blocks. 10
14. a) What is flag ? Draw the format of flag register and explain their functions. 5  
b) Write a program to load 07H in the register B and find its 2's complement. 5

P.T.O.



15. a) Explain the direct addressing and register addressing modes of 8085. 5  
b) Write an assembly language program to add two 16-bits numbers. 5
16. a) Write an assembly language program to multiply two digit BCD. 6  
b) Explain unconditional instructions. 4
17. a) Explain the following instructions of 8085 : 6  
i) STAX D  
ii) CMP M  
iii) XCHG.  
b) Explain nesting and subroutine with an example. 4
18. What is an interrupt ? Explain various interrupts of 8085. 10
19. a) Explain CALL and RETURN operations in 8085. 5  
b) Explain SIM and RIM instructions. 5
20. Write short notes on :  
a) Counters. 5  
b) DMA. 5
-