

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)
Each answer should not exceed 600 words.

16. (a) Differentiate large and medium - size microcomputers.
Or
(b) Discuss about any eight 8085 instructions.
17. (a) What are the types of memory? Discuss any two.
Or
(b) Explain about address decoding and memory address diagram.
18. (a) Explain about branch operations in 8085.
Or
(b) Define dynamic debugging. Discuss it.
19. (a) Define stack. Write its instructions.
Or
(b) Explain about hexadecimal counter.
20. (a) What is BCD number? Explain with example of BCD to LED code conversion.
Or
(b) Enumerate about BCD addition with example.

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B.C.A. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2023.

Fourth Semester

Computer Application

Skill Based Subject — MICRO PROCESSOR

(For those who joined in July 2021–2022)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

- Which programming register is a memory pointer?
(a) Program counter (b) Accumulator
(c) Flags (d) None
- The ALU includes _____ flip-flops.
(a) three (b) ten
(c) eight (d) five



3. The 8085 microprocessor signals can be classified into _____ groups.
(a) two (b) three
(c) five (d) six
4. The data bus and the low order address bus are _____
(a) multiplexed (b) demultiplexed
(c) fetched (d) none of these
5. Choose the arithmetic instruction from the following
(a) ADD R (b) MUI R
(c) ANA R (d) XRA R
6. Logic operation rotates has now many instructions?
(a) four (b) two
(c) three (d) six
7. The accuracy of the time delay depends on the accuracy of the systems _____
(a) clock (b) time
(c) delay (d) count
8. PSW stands for _____
(a) Program Storage Word
(b) Program Status Word
(c) Program Secure World
(d) None
9. In most microprocessor-based products the number are displayed in _____
(a) binary (b) hexa
(c) decimal (d) none

10. The main program transfers the binary data byte from the memory location to the _____
(a) Accumulator (b) Decimal
(c) ASCII (d) None

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).
Each answer should not exceed 250 words.

11. (a) Write about 8085 assembly programming model.
Or
(b) Write short notes on micro controllers.
12. (a) Write about advances in memory technology.
Or
(b) Explain about (i) ROM (ii) EPROM.
13. (a) What are the addressing modes in assembly program? Write it.
Or
(b) Write about 16 bit data transfer to register pairs (LXI).
14. (a) What is subroutine? How it is implemented?
Or
(b) How restart, conditional call and return instructions are executed?
15. (a) Discuss about BCD to binary conversion.
Or
(b) Write short notes on multiplication technology used in subtraction with carry.

