

(6 pages)

Reg. No. :

Code No. : 40667 E Sub. Code : SSCA 4 A

B.C.A. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2019.

Fourth Semester

Computer Application – Main

Skill Based Subject : MICROPROCESSOR

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The monitor program of single board micro computer is generally stored in the _____.
(a) RAM
(b) ROM
(c) R/COM
(d) Chip

2. The microprocessor communicates and operates in the binary numbers 0 and 1 are called _____.
(a) Bits (b) Byte
(c) GB (d) TB
3. Each instruction of the 8085 microprocessor can be divided into a few basic operations called _____.
(a) Write cycle (b) Machine cycle
(c) Control cycle (d) None of these
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. Counters and time delays can be designed using _____.
(a) Hardware (b) Software
(c) Microprocessor (d) All the above

8. A counter design generally included a _____ loop.
(a) Delay
(b) For
(c) While
(d) Do while
9. _____ ADD register content with carry.
(a) ADC
(b) ACI
(c) ADD
(d) None
10. _____ Exchange the content of HL with DE.
(a) XTHL
(b) HCHG
(c) LHLD
(d) SPHL

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 difference between compiler and interpreter.
Or
(b) Write short notes on high-level language.

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12. (a) Explain about:

- (i) ROM
(ii) Flash memory
(iii) EPROM.

Or

- (b) Explain about interfacing circuit.

13. (a) Write short notes on addressing modes.

Or

- (b) Explain about logic operation compare and its instruction.

14. (a) Write short notes on Time Delay using register.

Or

- (b) Explain briefly on Restart, Conditional call and Return instructions.

15. (a) Write about BCD-to-Seven segment LED code conversion.

Or

- (b) Briefly explain Multiplication techniques for BCD to binary conversion.

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PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain about 8085 programming model with its structure.

Or

- (b) Explain about any ten instruction set.

17. (a) Explain about address decoding and memory address diagram.

Or

- (b) Explain about memory classification with structure.

18. (a) Write about conditional loop and counter.

Or

- (b) Explain about Branch operations in 8085.

19. (a) Explain about Hexadecimal counter.

Or

- (b) Discuss about stack and its instruction in 8085.

20. (a) Explain Binary to ASCII and ASCII to Binary code conversion.

Or

- (b) Explain BCD-to-Seven segment LED code conversion.