

(6 pages)

Reg. No. :

Code No. : 21039

Sub. Code : GMCA 4 A

B.C.A. (CBCS) DEGREE EXAMINATION,
APRIL 2015.

Fourth Semester

Computer Applications — Main

Elective — MICROPROCESSOR

(For those who joined in July 2012 and afterwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. A device includes microprocessor, memory, and I/O signal lines on a single chip
(a) Microcomputer (b) Parallel Processor
(c) Microcontroller (d) Macroprocessor
2. ADDB
(a) ADD is an operand
(b) B is not an operand
(c) ADD is OPCODE
(d) B is OPCODE

3. ALE stands for _____
(a) Address Latch Encoder
(b) Address Length Encoder
(c) Address List Encoder
(d) Address Latch Enable
4. 8085 Microprocessor flags are affected by the _____ operations.
(a) Arithmetic and Logic
(b) Arithmetic only
(c) Logic only
(d) Input/output
5. JNC is a
(a) Arithmetic instruction
(b) Logical instruction
(c) Branch instruction
(d) Jump instruction
6. Execute CMA instruction when accumulator holds 15, then accumulator value will be
(a) EA (b) BA
(c) DA (d) 15

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7. Which instruction transfers the control from subroutine to main routine?

- (a) PUSH (b) RET
(c) SP (d) POP

8. SP points the _____ of STACK.

- (a) BOTTOM Location
(b) TOP Location
(c) MIDDLE Location
(d) ALL Locations

9. CALL BINBCD

- (a) BIN BCD is a subroutine
(b) CALL is subroutine
(c) BINBCD is main routine
(d) None of the above

10. RRC stands for

- (a) Rotate Accumulator Right
(b) Rotate Accumulator Right through carry
(c) Rotate Accumulator Left
(d) Rotate Accumulator Left through carry

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PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Write note on Assembly Language.

Or

(b) With two examples, explain the 8085 Instruction Format.

12. (a) Explain the 8085 Bus Structure.

Or

(b) List the control signals used for interfacing a memory with 8085.

13. (a) List and explain any five 8085 Branch instructions.

Or

(b) Write an 8085 assembly language program to sum of N elements.

14. (a) Implement a counter with 8085 Instructions.

Or

(b) What are the necessary 8085 instructions used for implementing a stack.

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[P.T.O.]

