

(6 pages)

Reg. No. :

Code No. : 8070

Sub. Code : PCAM 35

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

Third Semester

Computer Application – Core

MICROPROCESSOR AND ITS APPLICATIONS

(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. The microprocessor (MPU) primarily perform _____ operations.

(a) Four (b) Two
(c) Six (d) Eight

4. 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

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 how many instructions?

(a) Four (b) Two
(c) Three (d) Six

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7. A counter design generally included a _____ loop.
- (a) Delay (b) For
(c) While (d) Do while
8. Counters and time delays can be designed using
- (a) Hardware (b) Software
(c) Microprocessor (d) All the above
9. Assembler translates _____ language into machine language.
- (a) Machine language
(b) C
(c) Assembly
(d) All of these
10. _____ is a Micro Processor.
- (a) LED (b) VDU
(c) Pentium (d) None of these

PART B — (5 × 5 = 25 marks)

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

11. (a) Write short notes on flags in 8085 Programming mode.

Or

- (b) Write the difference between Assembler and compiler.

12. (a) Discuss about I/O operations.

Or

- (b) Write about memory interfacing 8155.

13. (a) Write any five arithmetic operating in 8085. Give any one example program.

Or

- (b) Write about any five 16 bit logic instructions.

14. (a) Write about Modulo ten counter.

Or

- (b) Discuss about STACK data structure in assembly programming.



15. (a) How microprocessor based software developed?

Or

- (b) Write about Pentium versions.

PART C — (5 × 8 = 40 marks)

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

16. (a) Explain about computer languages classification with it's types.

Or

- (b) Write 8085 assembly language program for subtraction.

17. (a) Discuss about microprocessor architecture.

Or

- (b) Explain about I/O operations with example program C.

18. (a) Write any five Logic operations. Give example program using logic operations.

Or

- (b) Explain about counting and Indexing in 8085.

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19. (a) Enumerate about :

- (i) Pulse wave forms
- (ii) Debugging counter.

Or

- (b) Explain about BCD Multiplication with example program.

20. (a) How program writing for cross compilers? Give example.

Or

- (b) Explain about register organization of 80286, 80386, 80486 micro processor.

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