

APRIL 2021

51302/SAZ3B

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Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What do you mean by microprocessor?
2. Define the term “ALU”.
3. Write a note on flag.
4. What is opcode and operand?
5. What are the notations used in the 8085 instructions?
6. What is an interrupt I/O?
7. Define: “ASCII Code”.
8. What is the use of instruction set?
9. Mention the functions of control unit.
10. Write down the use of Stack Pointer.
11. What is the action of MOV B, A?
12. Define the term “DMA”.

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Distinguish between the microcomputer and microprocessor.
14. Describe the types of instructions that perform the logical operations.
15. Elaborate the stack PUSH and POP instructions with examples.
16. How will you perform BCD subtraction? Give example.
17. How do we allow multiple devices to interrupt using the INTR line? Explain.
18. Explain the methods of passing data to a subroutine.
19. Write down the conditional call and return instructions.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Elaborate the general architecture of 8085 microprocessor.
21. Discuss the various types of looping used in programming techniques.

22. Illustrate the time delay using one register with flowchart and instructions.
23. How will you convert ASCII to binary conversions? Explain with example.
24. Summarize the concept of memory mapped I/O with diagram.

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