

APRIL 2022

50483/SE22A/SZ23C

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. Give the instructions that perform the logical operations?
2. Define: "Register".
3. What is general register organization?
4. What are the functions of control unit?
5. What is Opcode and operand?
6. Distinguish between the microcomputer and microprocessor.
7. Define: "Address Bus".
8. What is an instruction set?
9. Define interrupt.

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10. What are the four primary operations of a MPU?
11. What is vectored interrupts?
12. Define the term "DMA".

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Elaborate the functions of bus and memory transfers.
14. Describe about the stack organization.
15. Explain the BCD-to-Binary conversion with an example.
16. How will you perform BCD addition? Explain with a simple example.
17. Summarize the operation of programmable peripheral interface 8255.
18. Write a note on DMA Controller.
19. Describe the basic features of advanced microprocessors.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Explain the floating point representation with an example.
21. What are the steps required for a pipeline processor to process the instruction? Explain.
22. Discuss the various addressing modes supported by 8085 microprocessor.
23. Illustrate the functions of vectored interrupts in 8085 with diagram.
24. Point out the functions of Intel's Pentium 13 Processor.