APRIL 2023

50433/SE22A/ SZ23C

Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What are Complements?
2. Define : Binary Codes.
3. What is ALU?
4. Define : a Bus.
5. List out the operations performed on a stack.
6. What are Addressing modes?
7. Define : Microprocessors.
8. How is ASCII is converted to BCD?
9. Write a note on Binary conversion.
10. What is BCD Division?
11. Define : DMA.
12. Write the advantages of Pentium I7.

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PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Explain the various Registers with suitable examples.

14. Summarize on Data Transfer and Manipulation.

15. Discuss RISC piplelining and processing with suitable diagram.

16. Write the steps in Binary to BCD conversion and ASCII to Binary Conversion. Give example.

17. Discuss on 8085 Interrupts with neat diagram.

18. Explain BCD Multibyte Multiplication and Division with example.

19. Write a detailed note on pentium I5 processors.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Explain about various computer Arithmetic operations.

21. Discuss on MicroInstructions and prefetching.

22. Explain the following:

    (a) Interrupt Handling

    (b) Types of Interrupts

23. Discuss the following:

    (a) 8085 BCD Multiplication and Division

    (b) 8085 Instruction sets

24. With the block diagram, explain 8257 DMA controller.

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