APRIL 2021 **50433/SE22A**

Time : Three hours Maximum : 75 marks

SECTION A — ($10 \times 2 = 20$ marks)

Answer any TEN questions.

1. What is Microoperations?

2. Name the two types of complements for base r system.

3. What is a register transfer language?

4. What is an addressing mode?

5. What are the fields found in instructions format?

6. What is RISC pipeline?

7. What is a Microprocessor?

8. List any four data transfer instruction of 8085.

9. What is an vectored Interrupt?

10. Write a 8085 program to subtract two 8-bit BCD numbers.

11. List any two features of Pentium - I5.

12. Write any four features of 8257 DMA controller.

SECTION B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Explain briefly the Three-state bus buffers.

14. List and explain any four applications of logic operations.

15. Give a brief account on array processor.

16. Write a 8085 program to convert binary to BCD number.

17. Write a 8085 program to convert ASCII to binary.

18. Explain briefly the interrupts in 8085.

19. Explain the basic operations of DMA controller.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Explain the fixed point and floating point representation with examples.

21. Describe the three basic types of data manipulation instructions.

22. Explain the functional units of 8085 microprocessor.

23. Write a program to perform the division of 2 8-bitnumbers using 8085.

24. Explain about 8255A programmable peripheral interface.

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