NOVEMBER 2022 **50433/SE22A/SZ23C**

Time : Three hours Maximum : 75 marks

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

Answer any TEN questions.

1. Convert decimal 41.6875 into binary.
2. What is binary adder?
3. Give examples of Microoperations.
4. List any four program control instructions.
5. Write a advantage and disadvantage of three address format.
6. What is pipelining?
7. List any four instructions of 8085 microprocessor.
8. List any four Arithmetic instructions of 8085 microprocessor.
9. List the types of 8085 interrupts.
10. Write a 8085 program to add 2-BCD numbers.
11. List any two basic features of Pentium-13.
12. List and explain the ports of 8255A.

SECTION B — ($5 \times 5 = 25$ marks)

Answer any FIVE questions.

13. Explain bus and memory transfer.

14. Explain the types of shift microoperations.

15. Write a brief note on vector processing.

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

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

18. What are the different 8085 vectored interrupts?

19. Explain the architecture of 8257 DMA controller.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

20. Explain the most common types of binary-coded data found in digital computers.

21. Discuss the various addressing modes available in the processors.

22. Explain the architecture of 8085 with a block diagram.

23. Write a program to perform the multiplication of 2 8-bit numbers using 8085.

24. Describe the operations of DMA in detail.
