NOVEMBER 2023 **50433/SE22A/SZ23C**

Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What are the registers generally contained in the processor?
2. Define "Addressing Mode".
3. What is pipelining?
4. Write down the functions of CPU.
5. What is an array processor?
6. What do you mean by microprocessor?
7. Define "ASCII Code".
8. What are functions of data bus?
9. What is a flag?
10. What is the action of MOV B, A?
11. What are the basic features of advanced microprocessors?
12. Define the term "BCD".

II BCA → Computer organization

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Elaborate the types of instructions that perform the logical operations.

14. What are the components of instruction format? Describe.

15. How will convert ASCII to binary conversions? Explain with example.

16. How will you perform BCD subtraction? Explain with simple example.

17. Summarize the functions of Intel's Pentium 15 Processor.

18. Explain the overview of the 8085 instruction set.

19. Mention the operations of vectored interrupts in 8085.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Illustrate the register transfer language with example.

21. What is a stack? What are the operations performed on stack? Describe.

22. Discuss the general architecture of 8085 microprocessor.

23. How will you perform BCD to ASCII conversions? Explain with simple example.

24. What is DMA? Explain the block diagram of DMA also describe how DMA is used to transfer data from peripherals.

———————