

## COMPUTER ORGANIZATION

Time : Three hours

Maximum : 100 marks

## PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. What is a hardwired control unit?
2. What is assembly language? Give examples of different types of instructions.
3. List and explain any two kinds of addressing modes.
4. What is address sequencing?
5. What is I/O interface?
6. Differentiate between synchronous and asynchronous data transfer.
7. Describe multi processor system organization.
8. What is virtual memory?
9. Explain any one device used commonly as auxiliary storage.
10. Differentiate between RAM and ROM chips.

## PART B — (4 × 10 = 40 marks)

Answer any FOUR questions.

11. Explain the working of a Control unit.
12. Write an assembly program to add two numbers.
13. Discuss different types of address manipulation instructions.
14. With suitable diagram explain working of micro program sequencer.
15. What are priority interrupts?
16. List and explain different addressing modes.

## PART C — (2 × 15 = 30 marks)

Answer any TWO questions.

17. Explain the concept of associative memory.
18. Discuss the concept of handshaking with suitable block diagrams.
19. Explain the working ALU with suitable block diagram.