BSCS43 — COMPUTER ORGANIZATION AND ARCHITECTURE

Time : Three hours　　　　　　　　Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What are the functions of control unit?

2. Define Memory reference Instructions

3. What is micro instruction? Give an example

4. What is address sequencing?

5. Write the two address instruction format.

6. What is an instruction set of a computer?

7. What is i/o interface?

8. What is Interleaved mode?

9. What are the major auxiliary storage devices for a computer?

10. What is virtual memory?

3380

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Describe Instruction Cycle

Or

(b) What are the uses of interrupts?

12. (a) Give the block diagram of a control memory.

Or

(b) Give the role of micro programmed sequencer for a control memory.

13. (a) Compare direct addressing and indirect addressing modes.

Or

(b) Write about data transfer instructions.

14. (a) What are the different functions of direct memory access?

Or

(b) Describe I/O Processor with its block diagram

15. (a) What is associative memory in computer organization?

Or

(b) Explain the importance of cache memory.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the various Instruction types?

17. Describe the design of control unit.

18. Explain general register organization with block diagram.

19. Describe interrupt- initiated i/o and programmed I/O.

20. Explain the types in main memory.