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(Pages : 2)

Name.....

Reg. No.....

**FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2023**

Computer Science

BCS 5B 07—COMPUTER ORGANIZATION AND ARCHITECTURE

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Type Questions)

Answer all questions, each correct answer carries a maximum of 2 marks.

Ceiling 20 marks.

1. Explain Multiplexer.
2. What is edge triggering ?
3. List out the basic registers of a computer.
4. Define effective address.
5. Explain direct addressing mode.
6. Define stack.
7. Discuss OR gate.
8. Explain full adder.
9. Define associative memory ?
10. Explain simplex data transmission method.
11. What is Direct Memory Access ?
12. List out 4 program control instructions.

Turn over

Section B (Short Essay Type Questions)

Answer all questions, each correct answer carries a maximum of 5 marks.

Ceiling 30 marks.

13. Explain typical RAM chip with the help of a block diagram.
14. Explain Status Bits.
15. Explain memory reference instruction with examples.
16. Write short note on shift registers.
17. Discuss asynchronous & synchronous counters.
18. Explain Register stack.
19. Differentiate external and internal interrupts.

Section C (Essay Type questions)

Answer any one question, correct answer carries 10 marks.

20. Explain various Flip Flops with the help of truth tables.
21. Define Cache Memory. Explain different cache memory mapping techniques.

(1 × 10 = 10 marks)