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(Pages : 2)

Name.....

Reg. No.....

**FIFTH SEMESTER (CBCSS-UG) DEGREE EXAMINATION
NOVEMBER 2022**

B.C.A.

BCA/BCS 5B 07—COMPUTER ORGANISATION AND ARCHITECTURE

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Type Questions)

Answer all the questions.

Each correct answer carries 2 marks.

Ceiling 20 marks.

1. Define ripple carry adders.
2. Define Johnson's counter.
3. Define Encoder.
4. Define Accumulator.
5. Define Memory data register.
6. What is locality of reference ?
7. Define memory access time.
8. Write a note on vectored interrupt.
9. Write a note on virtual memory.
10. Define control word.
11. Define register stack.
12. What is address sequencing ?

Section B (Short Essay Type Questions)

Answer all the questions.

Each correct answer carries 5 marks.

Ceiling 30 marks.

13. Explain the operation of multiplexer with suitable diagram.
14. Write a note on Program control instructions.

Turn over

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15. Write a short note on control memory.
16. Differentiate polling and interrupt schemes in I/O techniques.
17. Describe about different types of logic gates.
18. Write a note on D flip-flop.
19. Write a short note on stack organization.

Section C (Essay Type Questions)

Answer any one question.

It carries 10 marks.

20. Explain mapping procedures of cache memory in detail.
21. Explain different computer instructions in detail.

(1 × 10 = 10 marks)