D 30468 (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

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.

$(1 \times 10 = 10$ marks$)$