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(Pages : 2)

Name.....

Reg. No.....

**FIFTH SEMESTER U.G. DEGREE EXAMINATION, NOVEMBER 2021**

(CBCSS—UG)

B.C.A.

BCA 5B 07—COMPUTER ORGANISATION AND ARCHITECTURE

(2019 Admissions)

Time : Two Hours

Maximum : 60 Marks

**Section A (Short Answer Type Questions)**

*Answer at least **eight** questions.*

*Each question carries 3 marks.*

*All questions can be attended.*

*Overall Ceiling 24.*

1. Define universal gates.
2. Define decoders.
3. Define multiplexer.
4. Define cache memory.
5. Define accumulator.
6. Define handshaking.
7. What is edge triggering ?
8. Define multiprocessing.
9. Define I/O bus.
10. What is interrupt ?
11. Define micro-operation.
12. Define register.

(8 × 3 = 24 marks)

Turn over

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**Section B (Short Essay Type Questions)**

*Answer at least five questions.*

*Each question carries 5 marks.*

*All questions can be attended.*

*Overall Ceiling 25.*

13. Explain half and full adder in detail.
14. What is write-through method in cache organization.
15. Write a note on data transfer instructions.
16. Write a short note on direct mapping.
17. Differentiate between synchronous and asynchronous data transfer.
18. Write a note on SR flip flop.
19. What you meant by I/O controllers ?

(5 × 5 = 25 marks)

**Section C (Essay Type Questions)**

*Answer any one question.*

*The question carries 11 marks.*

20. Define addressing modes. Give the details of different addressing modes.
21. Explain different modes data transfer to and from peripherals.

(1 × 11 = 11 marks)