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Roll No.

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**B.C.A. (Part-III) Examination, 2022
(Old Course)
Paper Third
COMPUTER SYSTEM ARCHITECTURE
(301)**

Time : Three Hours]

[Maximum Marks:50

Note: Attempt any two questions from each unit. All questions carry equal marks.

Unit - I

1. (a) Explain 1's & 2's complement of a number.
- (b) Explain EBCDIC codes.
- (c) Explain Error detection & correcting codes.

Unit - II

2. (a) Describe Flip Flops.

- (b) Explain Half adder with diagram.
- (c) Differentiate RAM & ROM.

Unit - III

3. (a) Explain CPU organisation.
- (b) What are registers? Explain any three types of Registers.
- (c) Draw block diagram of computer & explain its components.

Unit - IV

4. (a) Describe I/O Interface.
- (b) Describe I/O organisation in computers.
- (c) Explain Asynchronous serial transfer.

Unit - V

5. (a) What is Auxiliary memory ? Explain various types of it.
- (b) Describe Associative memory.
- (c) Explain virtual memory.

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