Roll No. ....

(07/21-II)

# **B.C.A. EXAMINATION**

(For Batch 2011 & Onwards)

(Second Semester)

LOGICAL ORGANIZATION OF COMPUTER—II

BCA-122

Time: Three Hours Maximum Marks: 80

Note: Attempt Five questions in all, selecting one compulsory. All questions carry equal marks. question from each Unit. Q. No. 1 is

## Attempt all the parts:

- (a) Define sequential circuit. What are the characteristics of sequential circuits ? 4
- 3 Define clock and its role in a sequential circuit.
- (c) What is a register?

(6-07/9) B-5372

P.T.O.

	(b)
and secondary memory. 4	Differentiate between primary n
	memory

### Unit I

- 2. What is a flip-flop? Explain the working of a D Flip-Flop.
- 3. What is race around condition in JK Flip-Flop? Explain in detail.

#### Unit II

- 4. What are various types of registers? Explain any two in detail.
- 5. What are Counters? Explain asynchronous counters in detail.

## Unit III

- What are various storage devices? Explain in detail.
- 7. Write a note on Flash memory, I/O devices. 16

### Unit IV

- 8. What is instruction cycle? What are the various instruction formats?
- 9. Write a detailed note on various addressing modes.

B-5372