Roll No. .....

Total Pages : 03

BCA/M-22

1873

LOGICAL ORGANISATION OF COMPUTER-II

BCA-122

Time : Three Hours]

[Maximum Marks : 80

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

1. (a) Presetting and clearing of a flip-flop.
   (b) Binary counters.
   (c) Laser printer
   (d) Trap Interrupt.

Unit I

2. What do you mean by race around condition ? How will you eliminate it ?

3. (a) What is a latch ? Explain working of a clocked SR flip-flop.
   (b) Differentiate D-type and T-type flip-flop.

Unit II

4. (a) Explain Serial In and Parallel Out 4-bit register.

   (b) How will you convert a shift register as a ring counter ? Explain.

5. (a) What do you mean by Synchronous and Asynchronous binary counters ?

   (b) Explain 4-bit Up-Down counter with timing diagrams.

Unit III

6. (a) What do you mean by Flash Memory ? Explain.

   (b) Differentiate between RAM and ROM. Describe various types of ROM.

7. (a) Discuss various Memory Parameters.

   (b) Describe Magnetic and Optical Storage Devices.

Unit IV

8. (a) Explain fetch and execute operation for executing LOAD instructions.

   (b) Describe various Instruction Formats with examples in detail.

9. (a) Explain Program Controlled and Interrupt driven I/O data transfer techniques.

(b) Explain IOP.