Roll No. ....

Total Pages : 2

BCAR/M-14   **939**

LOGICAL ORGANIZATION OF COMPUTERS-II

Paper : BCA-122

(For Reappear Candidates)

Time : Three Hours]   [Maximum Marks : 80

Note : Attempt *five* questions in all. Select *one* question from each unit. Q. No.1 is compulsory.

Compulsory Question

1. (a) Differentiate between Combinational and Sequential circuit.   3

   (b) Draw Excitation table of JKFF.   3

   (c) Define Access time and Seek time.   3

   (d) How JKFF is converted to D-FF ?   3

   (e) Define Interrupt and types of Interrupt.   3

   (f) How many FF are needed in Mod-10 counter ?   1

UNIT–I

2. Explain the problem associated with Clocked SRFF and discuss its solution.   16

3. Discuss Race-Around problem, and find solution for this.   16

UNIT–II

4. Explain Register to store 1010 in Parallel-in-Parallel-out mode.   16

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5. (a) Make Excitation table of T-FF.   4

   (b) Make Mod-10 counter using T-FF.   12

UNIT–III

6. Define Memory. Explain Magnetic Disk on Secondary storage device.   16

7. (a) Discuss ROM and types of ROM.

   (b) Explain CD and DVD as storage media.   16

UNIT–IV

8. Explain Addressing modes and solve $x = (a - b) * (c + d)$ using 3, 2, 1, 0 addressings.   16

9. (a) Explain Cycle stealing.

   (b) Discuss Poll-driven data transfer.   16

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