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BCA/M-15

LOGICAL ORGANIZATION OF COMPUTER-II

Paper-BCA-122

Time allowed: 3 hours] **[Maximum marks: 80**

Note: Attempt five questions, select one from each unit. Question No. 1 is compulsory.

1. (a) Define sequential Circuit.
   (b) Draw Excitation Table of T-FF.
   (c) Define Race- Around problem.
   (d) Define seek-time, latency Time.
   (e) Define Direct and Indirect addressing mode.
   (f) How many FF are needed to store 10101.

Unit-1

2. Explain working of clocked SRFF its problem and solution.
3. (a) How can you convert JKFF into D-FF and T-FF.
   (b) Discuss Master-SlaveFF.

Unit-1I

4. Make serial-in-parallel OUT Shift Register to store10101.
5. (a) Differentiate Asychronous and synchronous counter.
   (b) Make mod-5 counter using T-FF.

Unit-1II

6. Define Memory and Types of Memory. Write note on primary Memory.

7. (a) What are optical Memories? Explain different type of optical memories.
   (b) Differentiate Primary and Secondary Memory.

Unit-1V

8. Explain instruction format and solve
   X=(a+b)-(c*d)
   Using 3,2,1,0 addressing.

9. (a) Write note on DMA.
   (b) Explain Interrupt Driven Data Transfer.