Roll No. .....

## 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 fromeach 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 3 (e) Define Interrupt and types of Interrupt. (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 4 5. (a) Make Excitation table of T-FF. (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	) E	xplain	CD	and	<b>DVD</b>	as	storage	media.
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## UNIT—IV

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

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9. (a) Explain Cycle stealing.

(b) Discuss Poll -driven data transfer.

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