

Roll No.

Total Pages : 02

BCA/M-23

1865

LOGICAL ORGANIZATION OF
COMPUTER-II

BCA-122

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *Five* questions in all. Q. No. 1 is compulsory.
Attempt *four* more questions, selecting one question
from each Unit.

1. (a) What is Race-Around Condition ?
- (b) Explain IOP.
- (c) What is a Flash Memory ? How is it used ?
- (d) Define Sequential Circuit and write its properties.

4×4=16

Unit I

2. Describe working of Master-Slave flip-flop in detail with example. 16
3. (a) Write Excitation Table of JK and T-FF. 8
- (b) What is JK flip-flop ? Write its disadvantage also.

8

Unit II

4. (a) Explain Serial In and Parallel Out 4-Bit Register. 8
- (b) Write down the design procedure of Synchronous Counter. Design Synchronous MOD-5 Counter. 8
5. What is Register ? State different types of Registers and also define various modes of operations performed on registers. 16

Unit III

6. (a) Write a note on Hard-Copy Output Devices. 8
- (b) Explain different types of Optical Scanners. 8
7. Define Memory and its types. Explain difference between ROM and RAM. Also write types of ROM and RAM. 16

Unit IV

8. (a) Describe Program Controlled and Interrupt Driven Data Transfer Techniques. 8
- (b) Explain basic structure of CPU. 8
9. (a) Write a note on DMA. 8
- (b) Explain I/O Channels. 8