

(iii) Register.

(iv) Auto.



Logical Organisation of Computer-II

Paper-BCA -122

Time : Three Hours]

[Maximum Marks : 90

(Compulsory Question)

1. / (a) How will you convert J-K flip-flop into D. & T. type flip-flop ?

- (b) Differentiate between Asynchronous and Synchronous counters.
- (c) Explain Performance parameters of memory.
- (d) Define Cache memory.
- (e) Differentiate between Impact & Non-impact printers.
- (f) Discuss Cycle sterling. 6×3=18

SECTION - A

- 2. (a) Differentiate between Sequential and Combinational circuit. 9
- (b) Explain S-R flip-flop. 9
- 3. Explain the working of J-K flip-flop and its problem. How will you remove it with Master-slave flip-flop ? 18

SECTION - B

- 4. (a) Explain Serial-in Parallel-out register to store 11010. 9
- (b) Describe the working of asynchronous decade counter. 9
- 5. (a) Explain Parallel-in Serial-out register to store 11010. 9
- (b) Draw the timing diagram for 4-bit up & down counter. 9

SECTION - C

- 6. Explain the various types of Memories used in computer. 18
- 7. Write short notes on the following :
 - (a) OCR. (b) Light pen.
 - (c) Graphics adaptor. (d) Network card. 4×4½=18

SECTION - D

- 8. (a) How will you eliminate the speed mismatch between I/O devices and memory ? 9
- (b) Explain Instruction formats. 9
- 9. (a) Explain Fetch and Execute operation. 9
- (b) Explain the various addressing modes. 9

