



- 5 Enlist the primary four operations performed by any microprocessor system.
- 6 Discuss function of data bus of 8085 microprocessor.
- 7 Explain importance of ALE pin of 8085 microprocessor.
- 8 What is DMA? Explain with respect to 8085 microprocessor.
- 9 What is microprocessor? What are its applications?
- 10 What are different data transfer instructions of 8085 microprocessor? Explain MOV with example.
- 11 What do you mean by addressing mode?
- 12 Write a program to load hexadecimal 88H in register C, and display the number at the output port PORT 5.

- Que 3 [A] Give an account of 8085 microprocessor hardware model. [05]  
 [B] Write note on instruction word size and data format in detail with respect to 8085 microprocessor. [05]

OR

- Que 3 [A] Explain 8085 microprocessor instruction set. [05]  
 [B] Explain 8085 microprocessor programming model. [05]

- Que 4 [A] Explain what latch is. [05]  
 [B] Write a note on peripheral-mapped and memory-mapped I/O. [05]

OR

- Que 4 [A] Explain function of encoder and buffer in detail with respect to 8085 microprocessor. [05]  
 [B] With respect to 8085 microprocessor, discuss decoder and tri-state devices. [05]

- Que 5 [A] Write note on latching of low-order address bus (AD<sub>0</sub>-AD<sub>7</sub>) of 8085 microprocessor. [05]  
 [B] Explain how to generate read/write control signals for memory and I/O in detail with respect to 8085 microprocessor. [05]

OR

- Que 5 [A] Write detailed note on 8085 MPU with necessary diagram. [10]

- Que 6 [A] Enlist different logical instructions. Explain any two in detail. [05]  
 [B] Load 7EH in register D and F8H in register E. Mask the high-order bits (D<sub>7</sub>-D<sub>4</sub>) from both the data bytes, exclusive-OR the low-order bits (D<sub>3</sub>-D<sub>0</sub>), and display the answer at PORT<sub>10</sub>. [05]

OR

- Que 6 [A] Write program to load 5BH and C7H in register D and E, respectively, and add both the numbers. If the sum is greater than CCH, display FFH at output PORT 10; otherwise, display the sum. [05]  
 [B] Load 55H in register B and 77H in register C. Mask the low-order bits (D<sub>3</sub>-D<sub>0</sub>) from both the data bytes, AND the high-order bits (D<sub>7</sub>-D<sub>4</sub>), and display the answer at PORT<sub>20</sub>. [05]