



Marks : 50

Time : 1.30 pm to 4.30 pm

1. The cost of Installation of _____ cable is maximum.
 - a) STP
 - b) UTP
 - c) Fiber optic
 - d) co-axial
2. The maximum physical memory can be addressed by 8086 microprocessor is _____.
 - a) 4GB
 - b) 16MB
 - c) 1MB
 - d) 1KB
3. 8085 microprocessor consists of _____ general purpose registers.
 - a) 6
 - b) 8
 - c) 4
 - d) 16
4. _____ is a 8-bit microcontroller chip.
 - a) 8050
 - b) 8051
 - c) 8085
 - d) 8086

1. Explain any six features of 8085 microprocessor.
2. What do you mean by Interrupt? Explain software Interrupt.
3. What is Hub? Explain its types.

1. State and explain any 3 addressing modes of 8085 with example.
2. Draw a functional Pin diagram of 8085 microprocessor. Explain each pin.
3. Define a term Topology. Explain STAR topology with labelled diagram.

B) Answer the following. (Any one) (4)

1. Explain Flag registers with bit pattern of 8085.
2. Compare Microcontroller with Microprocessor.

Q.3 A) Answer the following. (Any two) (6)

1. Write a short note on 'Evolution of microprocessor'.
2. Explain with labelled diagram an "Instruction cycle" of microprocessor.
3. Compare any four characteristics between fiber optic cable and Twisted pair cable.

B) Answer the following. (Any one) (4)

1. Write functions of following blocks of 8085 microprocessor.
 - a) Instruction Register
 - b) Stack Pointer
2. Draw labelled Block diagram of internal architecture of 8085 microprocessor.

Q.4 A) Answer the following. (Any two) (6)

1. Explain the programming model of 32-bit version of X-86 family.
2. Compare between memory mapped I/O and I/O mapped I/O
3. Write a short note on co-axial cable.

B) Answer the following. (Any one) (4)

- 1) Write the functions of each following devices.
 - a) Modem
 - b) Router
- 2) Explain the following instructions.
 - a) ANA r
 - b) MOV A, M
 - c) LDA
 - d) ORA B

Q.5 A) Answer the following. (Any two)

(10)

- 1) Write an Assembly language program to multiply two, one byte number stored at 3050H and 3051H. Store the result in the two consecutive memory locations.
- 2) Write an Assembly language program to exchange a data block of 10 memory location starting from 3050H to 3059H with a data block 4050H to 4059H.
- 3) Write an Assembly language program to add 2 8-bit no's stored in memory location 3050H and 3051H. Store the result in 3052H.

OR

B) Answer the following. (Any two)

(10)

- 1) Write an Assembly language program to subtract two, one byte numbers, where stored in 3050H and 3051H. Store result in consecutive mem. location.
- 2) Write an Assembly language program to do sum of series given in memory block starting from 3050H. Length should be stored in 304FH and result should get stored in consecutive memory location.
- 3) Write an assembly language program to find maximum of 10 8-bit numbers stored in memory location 3050H to 3059H where store the result in consecutive memory location.



