



UNIT - II

- 2 (a) Draw pin diagram of 8085 and explain each pin. 8
- (b) Classify the instructions set of 8085 and explain them. 8
- OR
- 2 (a) Explain the instruction format of 8085. Draw the timing diagram of instruction MOV A, M and explain it. 10
- (b) Explain addressing modes of 8085. 6

UNIT - III

- 3 Explain :
- (a) Interrupts of 8085.
- (b) RST instructions of 8085.
- (c) Maskable and non-maskable interrupts and related data instruction to mask or unmask interrupt.
- (d) Use of stack during interrupt processing.

4×4=16

OR

- 3 (a) Explain, with suitable functional diagram, 8259 interrupt controller and its working. 10
- (b) Explain, how subroutines are implemented and executed. Explain call by value and call by reference. 6

UNIT - IV

- 4 Explain 8255, programmable peripheral interface (controller). Explain all modes of 8255 with example.

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OR

- 4 Explain, 8254, programmable interval timer, explain all the modes of 8254 with example.

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UNIT - V

- 5 (a) Write difference between serial communication and parallel communication.

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- (b) Explain serial communication controller USART 8251. Explain its all modes with example.

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OR

- 5 (a) Explain RS232 interface protocol.

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- (b) Explain interfacing of 4\*4 key pad with 8085 using 8255.

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