



5. Attempt any *one* part of the following: 10 x 1 = 10

- (a) Explain the control word format for I/O mode of 8255 PPI.
- (b) Interfacing programmable peripheral interface 8255 with 8086.

6. Attempt any *one* part of the following: 10 x 1 = 10

- (a) Draw and explain the interfacing of Timer IC 8253 with 8086.
- (b) Describe in details about the Real mode and protected mode memory addressing of higher order processors.

7. Attempt any *one* part of the following: 10 x 1 = 10

- (a) Draw the architecture of MSP430 Microcontroller and mention its various functional blocks.
- (b) Describe the addressing modes of MSP430 microcontroller in details.

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