Q.P.Code: 24738

## Max Marks: 80 (3 Hours) **Note:** 1. Question No. 1 is compulsory. 2. Out of remaining questions, attempt any three questions. 3. Assume suitable additional data if required. 4. Figures in brackets on the right hand side indicate full marks. 1. **(A)** Explain interrupt pins of 8085. (05)**(B)** Explain string addressing mode of 8086 (05)Explain memory segmentation of 8086. (05)**(C) (D)** Write control word of 8255 to initialize port A as input port, port B and C as (05)output port, Group A and B in mode 0. 2. Draw and explain timing diagram for read operation of 8086 in minimum mode. (10)**(A)** Write a program to set up 8253 as square wave generator with 1 ms period if **(B)** (10)input frequency of 8253 is 1 MHz. Draw and explain interfacing of ADC 0808 with 8086 microprocessor using 3. (10)(A) 8255. Explain 8086 interrupt structure. (10)**(B)** (A) Describe in brief architecture of 80286 microprocessor (10)(B) Explain Modes of 8254 Timer/Counter peripheral IC with the help of timing (10)diagram. (A) Draw and Explain interfacing of Math co-processor with 8086. (10)Explain interfacing of 8086-8259 (B) (10)(A) Explain interfacing of 8086 with 8257 DMA controller. (10)**(B)** (10)Explain how 64 KB EPROM can be interfaced with 8086 that operates at frequency of 10 MHz using 8 KB device.

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