Q.P.Code: 24739

(3 Hours) Max Marks: 80 **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 in brief about programmable interrupt controller 8259. (05)Explain advantages of memory segmentation of 8086. **(C)** (05)**(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. Explain minimum mode of 8086 microprocessor. Draw timing diagram for read (10)**(A)** operation in minimum mode. Write a program to set up 8253 as square wave generator with 1 ms period if (10)**(B)** input frequency of 8253 is 1 MHz. Draw and explain interfacing of DAC 0808 with 8086 microprocessor using 3. **(A)** (10)8255. Write a program to generate square wave. Explain 8086 interrupt structure. (10)**(B)** (A) Describe in brief and compare architecture of 80286 and 80486 microprocessor. (10)Explain Modes of 8254 Timer/Counter peripheral IC with the help of timing (10)**(B)** diagram. **5. (A)** Draw and Explain interfacing of Math co-processor with 8086. (10)Explain addressing modes of 8086 microprocessor (B) (10)(A) Explain different modes of operation of 8257 DMA controller. (10)**(B)** Discuss the functions of general purpose registers of 8086. Explain the function (10)of each register and instruction support for these function.

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