

EX 12 series
up & peripherals
:B

3/12/14

QP Code :12485

(Hours)

[Total Marks : 80

- Question number 1 is compulsory
- Solve any four out of remaining

- Q1 A Explain functions of interrupt Pins of microprocessor 8085. (5 marks)
- Q1 B. Explain Control Word of 8254 Timer. Write control word for Counter 1, Mode-3, R/W MSB, binary counter.(5 marks)
- Q1 C. Write features of 80386 microprocessor. (5 marks)
- Q1. D. Explain features of coprocessor 8087. (5 marks)
- Q2. A. Draw and Explain Architecture of 8085 Microprocessor.(10 marks)
- Q2 B. Explain modes of PPI 8255. (10 marks)
- Q3. A. Draw and explain interfacing of 8086 in maximum mode with 8259 in cascade mode.(10 marks)
- Q3 B Explain maximum mode of 8086 microprocessor. Draw timing diagram for write Operation in maximum mode of 8086 and explain it. (10 marks)
- Q4 A. Draw and explain interfacing of DAC 0808 with 8086 using 8255. Write a program to generate square wave. (10 marks)
- Q4 B. Draw and interface diagram of 8086 microprocessor and 8087 NDP, also explain various interface signals and co-processor working with host processor.(10 marks)
- Q5. A. Design 8086 microprocessor based system using minimum mode with following specifications:-
- 8086 microprocessor working at 8 MHz
 - 16 KB EPROM using 8 K devices
 - 16 KB SRAM using 8 K devices
- Clearly show memory map with address ranges. Draw a neat Schematic.(10 marks)
- Q5. B. Which are the different types of interrupt supported by 8086? Explain interrupt vector table of 8086. (10 marks)
- Q6. A Write a Program for 8086 microprocessor to exchange memory block of 10 bytes from location 30000 to 40000 (10 marks)
- Q6. B. Draw and explain an architecture of 80286 processor. (10 marks)