

(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 address pins of 8085. (04)
 (B) Explain addressing modes of 8086 (08)
 (C) Explain memory segmentation of 8086. (08)
2. (A) Draw and explain operation of 8086 in maximum mode. (10)
 (B) Write a program to set up 8253 as square wave generator with 1 ms period if input frequency of 8253 is 1 MHz. (10)
3. (A) Draw and explain interfacing of ADC 0808 with 8086 microprocessor using 8255. (10)
 (B) Explain interfacing of 8086 with DMA 8237 (10)
4. (A) Describe pipeline architecture of 80286 microprocessor (10)
 (B) Explain programmable interrupt controller 8259 in brief (10)
5. (A) Draw and Explain interfacing of Math co-processor with 8086. (10)
 (B) Explain interfacing of 8255 with 8086 microprocessor in minimum mode (10)
6. (A) Explain how 64 KB EPROM can be interfaced with 8086 that operates at frequency of 10 MHz using 8 KB device. (10)
 (B) Explain in brief HOLD, HLDA, TRAP, RESET IN, RD, WR, SID, SOD pins of 8085 (10)
