(3Hrs)

Max Marks: 80

NB: 1. Question No.1 Compulsory.
    2. Solve any THREE from Q.2 to Q.6
    3. Assume suitable data whenever necessary with justification.

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Q1   Answer any FOUR questions

| | | | |
|---|---|---|---|
| | (A) | Explain Memory Bank in 8086 Processor. | 05 |
| | (B) | Give different bits of Control Register-0 (CR0) of 80386. | 05 |
| | (C) | Draw and Explain Floating Point Pipeline for Pentium Processor. | 05 |
| | (D) | Explain assembler directives. | 05 |
| | (E) | Explain DAA and XLAT instructions of 8086 Processor. | 05 |

Q2.  (A)  Explain architecture of 8086 Processor with example.    10

    (B)  Explain PPI 8255 with block diagram.    10

Q3.  (A)  Design 8086 based system with following specifications.    10
         (1) 8086 working at 8MHz at minimum mode
         (2) 64KB RAM using 32KB X 8 device
         (3) 64KB EPROM using IC 27128.

    (B)  Explain Operating Modes of PIC 8259.    10

Q4.  (A)  Explain 80386 Processor descriptor and it's content.    10

    (B)  Explain Superscalar and Branch Prediction for Pentium Processor.    10

Q5.  (A)  Write details note on Multitasking and Protection.    10

    (B)  Explain Instructions pairing rules for Pentium Processor.    10

Q6.  (A)  Explain SPARC Processor with block diagram.    10

    (B)  Explain with block diagram PIT 8254.    10

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