

(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
