

(3 Hours)

[Total Marks : 100

- Note: 1) Question no. 1 is compulsory
2) Answer any four from Q.2 to Q.7
3) Draw diagram wherever necessary.

- Q.1 a) Explain architecture of Pentium processor with neat diagram. 10
b) Explain address translation mechanism of 80386. 10
- Q.2 a) Draw and explain code cache organisation of Pentium processor. 10
b) Explain protection mechanism used in 80386DX processor. 10
- Q.3 a) How flushing problem is minimised in Pentium processor? 10
b) Explain PCI workstation. 10
- Q.4 a) Draw the block diagram of super SPARC processor and explain. 10
b) Explain pipeline hazards with examples. 10
- Q.5 a) Explain layered architecture of SCSI!. 10
b) Discuss data formats of SPARC processor. 10
- Q.6 a) Draw block diagram of Itanium processor and write its features. 10
b) Draw and explain segment descriptor. 10
- Q. 7 Write note on (Any four) 20
- a) Floating point pipeline stages of Pentium processor.
b) Principles of designing of pipelined processor.
c) USB
d) RISC and CISC
e) Flag register of 80386.
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