## T. F. Comp VT (Rev) Advanced Microprocessor

Con. 3411-11.

7.

Write short note on the following.

B) SCSI

A) USB

## (REVISED COURSE)

RK-2628

[20]

(3 Hours)

[Total Marks: 100

,		estion No. 1 is compulsory.  empt any four questions out of remaining six questions.	
1.	A)	Enlist the instruction pairing rules of 'U' and 'V' pipeline in Pentium.	[05]
	B)	Write short note on: V-86 mode of operation,	[05]
	C)	State the features of Intel Itanium processor.	[05]
	D)	Explain the data types supported by SPARC architecture.	[05]
2.	A)	Explain with diagram arithmetic pipeline design for 8 bit multiplication.	[10]
	B)	What are the types of instruction hazards? Explain in detail.	[10]
3.	A)	Draw protected mode address translation mechanism in 80386DX with neat	
		flow diagram. Explain segment translation in detail.	[10]
	B)	State the use of following X86 flags: RF, TF, VM, NT, IOPL	[05]
	C)	What is segment descriptor? Draw & explain the structure.	[05]
4.	A)	Explain how the flushing of pipeline problem is minimized in Pentium	
		architecture.	[10]
	B)	Write short note on following: Branch prediction logic.	[05]
	C)	Explain different stages of floating point pipeline of Pentium Processor.	[05]
5.	A)	List the important features of Pentium-II processor. Differentiate between	
		Pentium-II & Pentium-III.	[10]
	В)	Write short note on Intel's Net burst micro architecture.	[05]
	C)	Write the features of Pentium-IV.	[05]
6.	A)	Explain the architecture of Super SPARC microprocessor with the help of neat	
		block diagram.	[10]
	Bì	Draw and explain various instruction formats of SPARC processor.	[10]

C) ISA

D) EISA