sem.	I I	Paper / Subject Code: 89007 / Elective - II Computer Orga	anization and Architecture	Me
îce	ba	Paper / Subject Code: 89007 / Elective - II Computer Orga		
		(3 Hours)	[Total Marks: 80]	
	N.B.	(1) Question No. 1 is compulsory.		3
		(2) Attempt any Three questions out of remaining five que	stions.	
		(3) Assume any suitable data if necessary.		
		(4) Figure to the right indicate full marks.		
	1.	Attempt any four.	20	
		a) Describe instruction cycle state diagram.		
		b) State Overflow and Subtraction rule with suitable exa-	mple.	
		c) Define Microinstruction and and its sequencing techni	que.	
		d) State Temporal locality and Spatial locality.		
		e) Explain flynn's Taxonomy.		
	2.	a) Describe the block diagram of Unsigned Binary Multiplic	ation with suitable example. 10	0
		b) Describe the memory hierarchy.	10	
			*	
	3.	a) Describe IEEE 754 single format floating point represent	ation.	0
		b) Explain in brief the levels of RAID.	10	
			Ø,	
	4. a) Describe the effect of conditional branch on instruction pipeline operation		pipeline operation using six stage	e
		instruction pipeline.	10	
		b) State the drawbacks of Programmed and Interrupt drive		t
	-	technique for the large data transfer implemented in comput	er. 10	)
	5.	5. a) Classify Semiconductor RAM and ROM with respect to Type, Erasure, Write mechan		
		and volatility and explain in detail.	10	
2		b) Describe the Fetch, Indirect and Interrupt micro operation		
	200			
	6.	a) Write short note on	10	)
3	3	1. Computer Architecture and Computer Organization		

69790

Page 1 of 1

10

2. Pentium's Branch prediction

b) Describe block diagram of Pentium and its Cache.