1	611′	7									
3	Ho	ours /	100	Marks	Seat No						
	Instru	ections –	(1)	All Questions	are Compulso	ory.					
			` /	Illustrate your necessary.	answers with	neat	sket	ches	wł	nere	ever
			(3)	Figures to the	right indicate	full	mark	S.			
			(4)	Assume suitab	le data, if ne	cessar	y.				
			` /	Mobile Phone, Communication Examination F	n devices are	•					
											Marks
1.		Answer	any]	FIVE of the f	following:						20
	a)	State the	salie	ent features of	80386.						
	b)	Distingui	sh be	etween LDTR	and GDTR.						
	c)	Explain 1	branc	h prediction in	pentium.						
	d)	Explain	the R	ISC processor.							
	e)	State the	prio	rity interrupts	of 80286.						
	f)	Describe	any	four DOS inte	errupts.						
	g)	State any	y four	r difference be	tween · COM	and -	EXI	E pr	ogr	am.	
2.		Attempt	any	FOUR of the	following:						16
	a)	Explain	the su	uper scalar exe	ecution of pen	tium	proce	essor			
	b)	Describe	debu	ig and test reg	isters of 8038	6 mic	ropro	oces	sor.		
	c)	Explain	with	neat diagram I	DOS-BIOS int	erface	÷.				
	d)	Describe	the	basic features	of RISC proc	essor.					

e) Give important features of sun ultra SPARC.

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		Ma	arks				
3.		Attempt any TWO of the following:					
	a)	Illustrate with diagram the concept of virtual 8086 environment memory management.					
	b)	Explain with the help of neat diagram the memory organization of 80386.					
	c)	Explain the hybrid architecture (i.e. RISC and CISC) of processors.					
4.		Attempt any FOUR of the following:					
	a)	Draw the architecture of pentium processor.					
	b)	Explain the concept of separate code and data cache memory in pentium processors.					
	c)	Describe enabling and disabling of paging in 80386.					
	d)	Which function is used to "Delete file"? Explain in detail with example.					
	e)	Explain the structure of MS-DOS with respect to its layers.					
	f)	Explain floating point exceptions.					
5.		Attempt any FOUR of the following:	16				
	a)	State the functions of the following pins of 80386 µp (microprocess)					
		(i) $\overline{BE_0} - \overline{BE_3}$					
		(ii) $\overline{BS_{16}}$					
		(iii) D/C					
		(iv) ADS					
	b)	List any four difference between real addressing mode and protected virtual (PVAM) addressing mode of 80286.					
	c)	State any four salient features of pentium.					
	d)	Explain non-maskable interupts.					
	e)	Explain pentium pro-processor.					
	f)	Explain design issues of RISC processors.					

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6. Attempt any <u>TWO</u> of the following: 16

- a) Describe the eight stage pipeling mechanism in floating point unit of pentium.
- b) Describe the loading sequence of MS-DOS in memory with neat sketch.
- c) Draw and explain the internal architecture of 80386.