	171 Ho		/ 100	) Marks	Seat	No.								
	_	uctions	(2) (3) (4) (5)	All Questions and Answer each in Illustrate your necessary.  Figures to the Assume suitable Mobile Phone,	ext main answers right ind e data, it	Queswith icate f neces	stion neat full essary	ske ma y. ner	rks. Ele	es	wh	c		
				Communication Examination H		are r	юс р	ern	nissi	DIG	2 11		Ma	rks
1.	a)	Atte	mpt any	SIX of the fo	llowing:									12
		(i)	What is motherbo	form factor?	List di	fferen	nt fo	rm	fa	cto	ors	of	•	
		(ii)	What is	FAT? List feat	ures of I	FAT 3	2.							
		(iii)	What is	LCD? Write a	dvantages	of I	CD.							
		(iv)	What is	RAM? Explain	types o	f RA	M.							
		(v)	Compare	online UPS as	nd offline	e UPS	S (an	ıy 2	2 pc	oin	ts)			
		(vi)	Explain	USB features.			·		-					
		(vii)	State an	y four printer p	oroblems.									
	b)	Atte	mpt any	TWO of the	following	•								8
		(i)		concept of cac			vith :	adv	anta	ıge	s a	and		
		(ii)	List reco	ording technique	s. Explaii	n MFI	M en	coc	ling	sc	hei	me.		

(iii) What are various key switches? Explain membrane switch.

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1/1	20	[ <del>2</del> ]	Marks
2.		Attempt any FOUR of the following:	16
2.	a)	Draw and explain North/South bridge architecture.	10
	b)	Explain hard disk drive construction.	
	c)	Explain characteristic of CRT monitor.	
	d)	With neat diagram explain working of opto mechanical mouse.	
	e)	Draw and explain linear power supply.	
	f)	Explain SCSI connectors.	
3.		Attempt any FOUR of the following:	16
	a)	Draw and explain various terms related to hard disk.	
	b)	Draw and explain block diagram of CRT colour monitor.	
	c)	Explain working of flat bed scanner with the help of block diagram.	
	d)	Explain following terms related to power supply problem:	
		(i) Blackouts	
		(ii) Brownouts	
		(iii) Surge	
		(iv) Spikes	
	e)	Explain RS32 interface basics.	
	f)	Explain any two types of maintenance of PC.	
4.		Attempt any <b>FOUR</b> of the following:	16
	a)	List and explain processor modes.	
	b)	Explain formatting in detail.	
	c)	Explain LCD matrix types.	
	d)	Describe different stages of the process of printing a document on laser printer.	
	e)	Draw and explain block diagram of general UPS.	
	f)	What is POST? Enlist different error codes and respective meaning provided by POST.	

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		Marks
5.	Attempt any TWO of the following:	16

- a) Explain AGP with it's types. Write advantages of AGP over PCI.
- b) Describe FAT and explain FAT types compare FAT and NTFS.
- c) Explain working of Inkjet printer with neat block diagram.

## 6. Attempt any FOUR of the following: 16

- a) Explain PCI-X bus of pentium IV mother board.
- b) State meaning of cluster? How it is rectified.
- c) Explain block diagram of video accelerator card.
- d) Explain use of output voltage of SMPS.
- e) What is centronics? Explain modes of operations of centronics interface.
- f) Explain any one software tool for debugging PC.