2	312	4											
3	Ho	ours /	<b>70</b>	Marks	Seat	No.							
Instructions – (1)				All Questions	s are Comp	oulsory	2.						
			(2)	Answer each	next main	Quest	tion	on a	a ne	ew j	pag	e.	
			(3)	Illustrate you necessary.	r answers	with n	eat s	ketc	ches	wł	nere	ver	
			(4)	Figures to the	e right ind	icate f	full n	nark	S.				
			(5)	Assume suita	ble data, i	f neces	ssary.						
			(6)	Mobile Phone Communication Examination	on devices	•							
												Ma	rks
1.		Attempt	any	FIVE of the	following	:							10
	a)	List adv	antag	es of Comput	er Network	ks. (an	y two	0)					
	b)	Draw pr	ocess	of Data Com	nmunication	1.							
	c)	List Net	work	ing Topologies	S.								
	d)	State typ	pes o	f errors.									
	e)	Draw a	neat	labeled diagra	m of co-a	xial ca	ble.						
	f)	Compare	e LRO	C and VRC.									
	g)	List any	four	networking c	onnecting	devices	S.						
2.		Attempt	any	THREE of t	the followi	ng:							12
	a)	Compare	e clie	nt-server and	peer-to-pee	r netw	orks.						
	b)	Draw a its types		labeled diagra	m of twist	ted pai	ir cal	ole :	and	sta	te		
	c)	Explain	wirel	ess LAN 802	11 architec	eture							

d) Explain OSI reference model in detail.

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		Ma	rks				
3.		Attempt any THREE of the following:	12				
	a)	Draw and explain piconet bluetooth architecture.					
	b)	Explain satellite communication with the help of neat diagram.					
	c)	Compare circuit switching and packet-switching, consider following parameter orientation, flexibility, technology and layer.					
	d)	Explain the function of presentation layer and network layer.					
4.		Attempt any THREE of the following:	12				
	a)	With suitable diagram describe					
		i) STAR Topology					
		ii) RING Topology					
	b)	Describe the various IP address classes with suitable example.					
	c)	Describe multiplexing technique.					
	d)	Compare IPV4 and IPV6 packet format.					
	e)	Differentiate between Hub and switch. (any four points)					
5.		Attempt any <u>TWO</u> of the following:	12				
	a)	Explain modes of communication					
		i) Simplex					
		ii) Half-Duplex					
		iii) Full-Duplex					
	b)	Draw and explain fiber-optic cable					
	c)	Explain SMTP, HTTP, ARP protocol in detail.					

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		Marks
6.	Attempt any TWO of the following:	12

- a) Explain mobile generations.
  - i) 1 G
  - ii) 2 G
  - iii) 3 G
  - iv) 4 G
  - v) 5 G
- b) Differentiate between OSI and TCP/IP network model.
- c) Explain wide Area Networks along with its advantages and disadvantages.