

3 Hours / 70 Ma	rks	Seat No.					
Instructions :	 (2) Answe (3) Illustr (4) Figure (5) Assun (6) Use of permit (7) Mobil 	estions are comp er each next mai sate your answer es to the right in the suitable data, of Non-program ssible . le Phone, Pager of es are not permis	n question s with near dicate full if necessa mable Ele and any oth	t sketch marks. ry. ctronic her Ele	nes where c Pocket ctronic C	Calcul ommun	lator is
							Mark
 Attempt any five of the a) Enlist four standard b) Draw a labeled dia c) Define line of sight d) State advantages of e) State advantages of f) State any two draw g) Enlist generations 	rd organizat agram of co at propagatio of multiplex of packet sw wbacks of p	ions. axial cable. on. ing. vitching. arity checking fo		ection.			1
 2. Attempt any three of a) Compare amplitude b) Explain process of c) Draw a labeled diad d) Differentiate betwo 	de modulation f phase shift agram of fib	on and frequency t keying. per optic cable an	d state its	advant			1
 3. Attempt any three of a) Draw a BFSK way b) Draw and explain c) Compare DSSS w d) Explain the process M (X) = 101 then 	veform to re block diagr ith FHSS. ss of CRC v	epresent the follo am of satellite co with respect to fo	ommunicat	tion.			1)10 and

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4. Attempt any three of the following :			
a)	Explain the following conc	cept with neat diagram :	
	i) Bit Rate	ii) Baud Rate	
b)	"In satellite communication Explain.	different frequency bands are used for uplink and downlink".	
c)	Explain virtual circuit appr	oach of switching used in computer networks.	
d)	Assuming even parity tech	nique find the parity bit for following frames :	
	i) 0000010	ii) 1111000	
	iii) 1010101	iv) 1011011	
e)	Explain the concept of pice	o net and scatter net of Bluetooth.	
5. Att	tempt any two of the follow	ring :	
a)	Differentiate between twist	ted pair coaxial cable and fiber optic cable (any 4 points).	
b)	i) Stop and wait	and error control techniques :	
	ii) Go back N ARQ		
c)	Compare first, second, thi points).	rd and fourth generation mobile telephone systems (any 3	
6. Att	tempt any two of the follow	ring :	
a)	Explain the following mult	iplexing techniques with block diagram :	
	i) TDM	ii) FDM	
b)	Explain the layered architecture of ISO-OSI model along with functions of each layer.		
c)	Two channels one with a b to be multiplexed.	it rate of 100 Kbps and another with bit rate of 200 Kbps are	
	Answer the following ques	tions :	
	i) Calculate size of frame	s in bits	
	ii) Calculate the frame rate	e	
	iii) Calculate the duration	of frame.	
