Total No. of printed pages – 5									
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				2022	BINA CHOWOPURY CTATE	RALLISRARY 6) apara,			
B.Tech. 5th Semester End-Term Examination									
ECE									
COMPUTER NETWORKS									
(New Regulation and New Syllabus)									
Full N	Full Marks – 70					Time – 3 hours			
		The figure	es in the margin in	digate full	marks for the quest	iona			
		The lighte	o in the margin in	arcate fun	marks for the quest	ions.			
		A	Answer question no.	l and any	four from the rest				
1. /	1. Answer the following (MCQ/ Fill in the blanks): $(10 \times 1 = 10)$								
((i)	What are di	ifferent approaches	s of packet	switching				
	(a) Datagram and virtual channel								
		(b) Datagr	ram and virtual cir	cuit					
		(c) Virtua	l channel and virtu	ual path					
		(d) Virtua	l circuit and virtua	al path					
((ii)	A PVC is a	transmission path	in	switching.				
((iii)	WWW is an	layer	protocol.					
	(iv) In which of the following switching the information is in binary type?								
		(a) Circuit	t	(b)	Packet				
		(c) Messa	ge	(d)	None of the above				
((v)	The full form	m of WLL is						
. ((vi)	The connect	tion oriented protoc	col is	The state of the s				
	(vii)	What is A F	HUB						
		(a) Softwa	are	(b)	Computing Devices				
		(c) Netwo	ork device	(d)	Calculating device				

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	(,	as?	et know
		(a) HTML (b) Email	
		(c) WWW (d) Internet	
R	(iz	Which type of topology is best suited for large businesses wh carefully control and coordinate the operation of distributed branch	ich mus
		(a) Ring (b) Local area	
		(c) Hierarchical (d) Star	
	(x)	channel?	egitimate
		(a) Simplex (CHIT & GIPS) Azora, Markhowapara, (b) Half duplex	
		(c) Full duplex (d) Double duplex	
2.	(a)		(5)
	(b)		(6)
	(c)	What is the difference between internet architecture and OSI model.	
3.	(a)	What do you mean by topology in computer network? How many to are there explain briefly.	0.000
	(b)	Write advantages of LAN over WAN.	(3)
	(c)	Discuss about different types of issues in data link layer.	(4)
4.	(a)	What do you mean by framing? In which layer it is used?	(2+1=3)
	(b)		(6)
	(c)	Explain about pure Aloha and Slotted Aloha.	(6)
5.	(a)	Describe the shortest path algorithm used for network layer design.	(5)
	(b)	Why optical fibre cable is preferred over twisted and coaxial cable?	(5)
	(c)-	Discuss the issues related to Network design.	(5)
3.	(a)	Describe High Level Data Link Protocol.	(5)
	(b)	Compare the TCP and UDP protocol.	(4)
	(c)	Discuss the uses of Application Layer.	(3)
	(d)	What is HTTP.	(3)
			(0)

7. Write short notes on any three.

 $(3 \times 5 = 15)$

- (a) IP address
- (b) Point-to-point protocol

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- (c) Ethernet
- (d) SNR (signal to noise ratio)