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Printed	ed Page:-04 Subject Code:- ACSBS0602					
	Roll. No:					
	NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA					
	(An Autonomous Institute Affiliated to AKTU, Lucknow)					
	B.Tech					
	SEM: VI - THEORY EXAMINATION (2022-2023)					
	Subject: Computer Networks					
		lax. Marks: 100				
	ral Instructions:					
	Verify that you have received the question paper with the correct course, code,					
	s Question paper comprises of three Sections -A, B, & C. It consists of	Multiple Choice				
	ions (MCQ's) & Subjective type questions.					
	ximum marks for each question are indicated on right -hand side of each que	stion.				
	3. Illustrate your answers with neat sketches wherever necessary.					
	ume suitable data if necessary. ferably, write the answers in sequential order.					
-	sheet should be left blank. Any written material after a blank she	pet will not he				
	ated/checked.	et will flot be				
crarace	SECTION A	20				
		20				
1. Atten	empt all parts:-					
1-a.	Disadvantages of a Peer to Peer computer network are (CO1)	1				
	(a) Any one tamper data					
	(b) Less secure					
	(c) Difficult to maintain large data as any one can modify or del	ete				
	(d) All the above					
1-b.	A walkie-talkie operates in (CO1)	1				
	(a) simplex					
	(b) half duplex					
	(c) full duplex					
	·					
	(d) semi-duplex					
1-c.	The synchronous Time-division Multiplexing (TDM) is not efficient be (CO2)	pecause of 1				
	(a) higher data rate					
	(b) infinite frames					

	(c) lower data rates	
	(d) empty slots	
1-d.	If link transmits 4000frames per second, and each slot has 8 bits, the transmission rate of circuit this TDM is (CO2)	1
	(a) 32kbps	
	(b) 500kbps	
	(c) 32bps	
	(d) 500bps	
1-e.	CRC uses (CO3)	1
	(a) Binary Multiplication	
	(b) Binary division	
	(c) Binary Addition	
	(d) Binary Subtraction	
1-f.	In CRC method at receiver side, if the result is all then accepted. (CO3)	1
	(a) Ones	
	(b) Zeros	
	(c) don't care	
	(d) None of these	
1-g.	A port address in TCP/IP is bits long. (CO4)	1
	(a) 32	
	(b) 48	
	(c) 16 (d) 8	
1-h.	Which of the following is a transport layer protocol? (CO4)	1
	(a) DNS	
	(b) HTTP	
	(c) TCP	
	(d) ARP	
1-i.	In File Transfer Protocol, data transfer cannot be done in(CO5)	1
	(a) stream mode	
	(b) block mode	
	(c) compressed mode	
	(d) message mode	

1-j.	The frequency band of Bluetooth radio is around	(CO5)	1
	(a) 2.3 GHz		
	(b) 2.1 GHz		
	(c) 2.4 GHz		
	(d) 2.2 GHz		
2. Atte	empt all parts:-		
2.a.	What is IEEE standards? (CO1)		2
2.b.	Draw the digram for multiplexing. (CO2)		2
2.c.	Define stop and wait protocol. (CO3)		2
2.d.	Define Congestion Control? (CO4)		2
2.e.	What is TELNET? (CO5)		2
	SECTION B	- 01	30
3. Ans	wer any <u>five</u> of the following:-	100	
3-a.	Explain Bus and Tree topology. (CO1)	117),	6
3-b.	Explain OSI Model. (CO1)	3	6
3-c.	Define Go-back–N ARQ. (CO2)		6
3-d.	How the sliding window protcol is better? Explain it	using example? (CO2)	6
3.e.	Explain QoS improving techniques ?(CO3)		6
3.f.	Explain IPv6 addressing. (CO4)		6
3.g.	Basic concepts of Cryptography ? (CO5)		6
	SECTION C		50
4. Ans	wer any <u>one</u> of the following:-		
4-a.	Explain the need and goals of computer networks example (CO1)	also discuss the practical	10
4-b.	Compare the guided and unguided media with exam	nples. (CO1)	10
5. Ans	wer any <u>one</u> of the following:-		
5-a.	Write down the comparison between: - FDM and TDN	M (CO2)	10
5-b.	Explain concepts on spread spectrum with diagram.	(CO2)	10
6. Ans	wer any <u>one</u> of the following:-		
6-a.	Explain two dimensional parity checking method. I hamming code 1001001, perform the error detection		10
6-b.	Explain Parity checking and checksum method used	for error detection with the	10

help of example. (CO3)

7. Answer any one of the following:-

7-a.	Write short notes on TCP and UDP. (CO4)	10
7-b.	Explain how an shortest path algorithm works also give suitable example. (CO4)	10
8. Answ	er any <u>one</u> of the following:-	
8-a.	Explain DNS with reference to its components and working. (CO5)	10
8-b.	Explain the architecture and services of e-mailing system. (CO5)	10

