Enrollment No:	Exam Seat No:
	Exam Scat 110.

C. U. SHAH UNIVERSITY

Winter Examination-2022

Subject Name: Data Communication and Networking

Subject Code: 4CS03BNT1 Branch: B.C.A.

Semester: 3 Date: 23/11/2022 Time: 11:00 To 02:00 Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed

Q-1		Attempt the following questions	:	(14
	a)	What is full form of MAN?		
		A. Metro Area Network	B. Metropolitan Area Network	
		C. Metropolitan Arc Network	D. Metropolitan Area Net	
	b)	In which topology, all devices sha	re single communication line or cable?	
		A. Bus	B. Ring	
		C. Star	D. Mesh	
	c)	What is PAN?		
		A. Perfect Area Network	B. Personal Arena Network	
		C. Personal Area Network	D. Personal Area Network	
d)	d)	is an arrangement of the network in which every node is		
		connected to the central hub, swite	ch or a central computer?	
		A. Bus	B. Ring	
		C. Star	D. Mesh	
	e)	e) is a direct link between two devices such as a computer and		
		printer?		
		A. Point-to-point	B. Multipoint	
		C. Point-to-multi	D. All of above	
f	f)	Which OSI layer contains information in the form of bits?		
		A. Physical	B. Data	
		C. Network	D. Application	
g)	waves are the electromagnetic waves that are transmitted in all			
	O.	the directions of free space?		
		A. Microwave	B. Radio	
h		C. Infrared	D. All of these	
	h)	Which protocol enables file sharing between hosts, both local and		
	,	remote, and runs on top of TCP.	,	
		A. TCP	B. IP	
		C. FTP	D. DHCP	



	i)	is an application layer protocol that enables a user to communicate		
		with a remote device.		
		A. TCP	B. UDP	
		C. TELNET	D. DNS	
	j)	In IPv6, 6 stands for?		
		A. Position	B. Version	
		C. Date	D. Signal	
	k)	Which device is to regenerate the si	gnal over the same network before	
	ŕ	the signal becomes too weak?		
		A. Hub	B. Repeater	
		C. Switch	D. Modem	
	1)	is used for the transmission	on of digital signals over telephone	
	·			
		lines which are analog in type? A. Repeater	B. Hub	
		C. Modem	D. Switch	
	m)	DHCP stands for		
	,	A.Dynamic Hang Configuration	B. Direct Host Configuration	
		Protocol	Protocol	
		C. Dynamic Host Control	D. Dynamic Host Configuration	
		Protocol	Protocol	
	n)	WiFi stands for		
	,	A. Wired Fidelity	B. Wireless Fidelity	
		C. Wired Fidelity	D. Wired Fidelity	
Attem	pt anv	four questions from Q-2 to Q-8	2000.000	
Q-2		Attempt all questions:		(14)
	a)	Explain LAN in details.		(5)
	b)	Describe WAN in details.		(5)
	c)	What is topology? Explain Bus topology.		(4)
Q-3		Attempt all questions:		(14)
	a)	Discuss ring topology.		(5)
	b)	Explain transmission modes.		(5)
	c)	Describe unicast and broadcast trans	smission.	(4)
Q-4		Attempt all questions:		(14)
Y-T	a)	What is OSI? Explain Physical laye	r	(5)
	b)	Discuss coaxial cable media.	•	(5)
	c)	Describe network layer.		(4)
Q-5	-,	Attempt all questions:		(14)
V -2				
	a)	Discuss microware transmission.		(5)
	b)			(5)
	c)	Write a note on: Networking addres	sing.	(4)



Q-6		Attempt all questions:	(14)
	a)	DiscussTCP/IP protocol suite.	(7)
	b)	Describe types of multiplexing.	(7)
Q-7		Attempt all questions:	(14)
	a)	Discuss various switching techniques.	(7)
	b)	Describe switch and hub with its differences.	(7)
Q-8		Attempt all questions:	(14)
	a)	Discuss control access protocols with methods	(7)
	b)	Write a note on: IP Addressing	(7)

