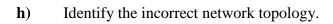
Enrollment No	0:	Exam Seat No:		
	C.U.SHAH I	JNIVERSITY		
	Summer Exai	mination-2022		
Subject Name	: Networking Essentials			
Subject Code:	4CS04INE1	Branch: B.Sc.I.T.		
Semester: 4	Date: 05/05/2022	Time: 11:00 To 02:00	Marks: 70	
Instructions:				
(2) Instruction (3) Draw	Programmable calculator & any ctions written on main answer booneat diagrams and figures (if necessitable data if needed.	ok are strictly to be obeyed.	ohibited.	
At	tempt the following questions:			
a) OS	SI stands for			
A	. Operating System Interface	B. Optical System Interfa	ce	
C	. Operating System Internet	D. Open System Intercon	nection	
b) Ho	ow many layers are there in OSI re	eference mode?		
A	3	B. 5		
C	2. 7	D. 9		
c) W	hat is HUB?			
A	. Software	B. Computing Device		
C	. Network device	D. Calculating Device		
d) W	hat does a set of rules defined?			
	SMTP	B. FTP		
	.IMAP	D. Protocol		
•	hich protocol is primarily used for	U		
	. FTP	B. TCP		
	E.TFTP	D. HTTP		
*	Which was the first network based on TCP/IP Protocol?			
	. ARPANET	B. HUB		
	. Ethernet Card	D. Router		
<i>O</i> ,	CP/IP stands for			
	. Telephone Control Protocol/ In			
	B.Transmission Control Protocol / Internet Protocol			
C	Transmission Control Protocol /	/ International Protocol		



D. None of these

Q-1



		C. P2P	D. Ring			
	i)	What is the length of IPV4 address	ss?			
		A. 28	B. 32			
		C.64	D. 128			
	j)	Which network device is used to connect two dis- similar types of networks?				
	-	A. switch	B. Hub			
		C. Bridge	D. Gateway			
	k)	Which device is used to boost up	a weak signal?			
		A. Modem	B. Repeater			
		C. Switch	D. Router			
	l)	MAC address is of bits	\$			
		A. 8	B. 16			
		C. 32	D. 48			
	m)					
	ŕ	A. Application gateway	B. switch			
		C. Router	D. Repeater			
	n)	In switching method, the me	essage is divided into small packets.			
	,	A. Virtual switching	B. Packet switching			
		C. Message switching	D. None of these			
Q-2	a) b)	Attempt all questions Explain Simplex, Half-duplex, and Full duplex modes with diagram. Explain OSI reference model with each later.		(14) (7) (7)		
Q-3		Attempt all questions		(14)		
	a)	Explain CSMA/CD with diagram		(7)		
	a) b)	Explain CSMA/CD with diagram Explain parallel communication a		(7)		
	D)	Explain paramet communication a	ind serial communication.	(1)		
Q-4		Attempt all questions		(14)		
ζ.	a)	Explain FDM and TDM in detail.		(7)		
	b)	Explain twisted pair cable and co		(7)		
	~,			(-)		
Q-5		Attempt all questions		(14)		
-	a)	Explain message switching and p	acket switching in detail.	(7)		
	b)	What is topology? List out various topologies. Explain star and mesh and ring in				
	·	detail.		. ,		
Q-6		Attempt all questions		(14)		
	a)	Explain router and gateway in det	tail.	(7)		

B. Star

A. Bus



	b)	What is error? Explain types of error in detail.	(7)
Q-7		Attempt all questions	(14)
	a)	Explain analog transmission and digital transmission in detail.	(7)
	b)	Explain Infrared and Bluetooth in detail.	(7)
Q-8		Attempt all questions	(14)
	a)	Explain LAN & WAN indetail.	(7)
	b)	Explain microwave and satellite communication.	(7)

