

## SARDAR PATEL UNIVERSITY

## BCA Semester-6 Examination, 2022 US06CBCA23 ||Data Communication and Computer Networks

	Selec	ct the appropria	te option	for t	he fol	owi	ng ane	estions:					1
1)		rconnected collec							n 00				1
_,	Α.	Computer nety	vork	utono.	mous (	).	puicis Host	15 KHOW.	n as _		<b></b> '		
	В.	Subnet	TOTAL				Server	i					
3)		4											
2)	The	data elements	sent fr	om (	one o	levi	ce to	another	per	second	is	known	
	as	D 1 '14					,						
	Α.	Bandwidth						ation Rate	e				
2)	В.	Data Rate					None						
3)	Cable has a central core conductor of solid wire enclosed in an insulating sheath, which is, in turn, encased in an outer conductor of metal foil, braid, or a										ng		
	Sileat	ii, which is, in tu	rn, encase	ed in a	ın out	er co	nducto	or of meta	l foil	, braid, or	a		
		ination of the tw	0.	•									
	A.	Twisted-pair						Optical					
4	В.	Coaxial cables					None						
4)		is an analog r	nultiplexi	ing te	chniqu	ie th	at com	bines ana	log si	gnals.			
	Α.	FDM			(	٠,	WDM		_	_			
	В.	TDM					None						
5)	Α	is a set of	frules tha	it gov	ern da	ta co	ommur	nications.					
	A.	Layers					Netwo		•				
	В.	protocol			Γ	).	Comm	unication					
6)	Dialo	g control and syr	nchroniza	tion is	s respo	onsil	oility o	$\mathbf{f}$					
	Α.	Transport laye	r				-	ation laye	er				
	В.	Network layer						n layer	-				
7)	Whic	h of the followin	o CSMA	hae h					co.				
,	A.	1-persistent	БОЗИЛЕ	1145 11				ersistent	1 (				
	В.	p-persistent					•						
8)	A repeater operates atlayer.												
υ,	A.	physical	iay	CI.	-	,		1					
	В.	datalink		•			networ						
9)	ъ.		a a <b>c</b> 4	11 2	Γ		all of t						
"	consists of two distinct components: transmission lines & elements.											itching	
	A.				_			** ~					
	В.	Host			(			ediate Sys	stem				
	ь.	Subnet			Γ	).	Server						
10)	A Bluetooth Network is called a												
	A.	Piconet			 C		Wirele	22					
	В.	scatternet			Ē		None	00					
	Tick	(TRUE or FALS	SF) and I	D:11 :	415 a 15	I a sa l							_
1)	Tick (TRUE or FALSE) and Fill in the blanks.  When the packets are small and all the same size, they are often called												0
<b>-</b> <i>J</i>	** 11CH	tine packets are s	sman and	an th	e sam	e siz	e, they	y are ofter	i calle	ed			

	3)	The signal from a satellite is normally aimed at a specific area called					
	4)	A switch performs filtering on the basis of address.					
	5)	The connection of two or more networks is called an internet. [TRUE/FALSE].					
	6)	Twisted-pair cable is a unguided medium of transmission. [TRUE/FALSE].					
	7)	An artificial satellite needs to have Orbit which is the path in which it travels around the Earth. [TRUE/FALSE].					
	8)	Router Device amplifies the signals. [TRUE/FALSE].					
Q-3		Give short answers of the following questions: ( ANY TEN)	20				
	1)	Explain DQDB in brief.					
	2)	What is computer network? What are the three categories of computer network?					
	3)	Explain SUBNET in brief.					
	4)	Explain serial transmission in short.					
	5)	List various categories of Coaxial cable and state their use.					
	6)	What do you mean by Multiplexing? List out various Techniques.					
	7)	What is satellite? List categories of satellite.					
	8)	List main responsibilities of Physical layer.					
	9)	Draw diagram for protocol of different layer of OSI Model.					
	10)	Explain Wireless Network in short.					
	11)	What is Hub? What are the types of Hub?					
٠	12)	List out advantages & disadvantages of Star topology.					
Q-4		Give Long answers of the following questions: (ANY FOUR)	32				
	1)	Explain classification of computer Network.					
	2)	Explain LAN in detail.					
	3)	Explain Fiber optic in detail.					
	4)	Explain FDM in detail.[					
	5)	Write a note on satellite Network.					
	6)	What is OSI model? Draw diagram of OSI Model. Explain any two layers.					
	7)	Explain Mesh topology with its diagram, advantages & disadvantages.					
	8)	Explain: Repeater and Bridge.					