

## SARDAR PATEL UNIVERSITY BCA (NC)EXAMINATION, 6<sup>th</sup> SEMESTER

Feiday, 24-6-2022 US06CBCA02[Computer Networks]

•	TIMI	E::/©:00 qm tol2:00 pm	Maximum Marks: 70	
Q-1	1)	Multiple Choice Question.[Each Question carries one Mark] [10] network consists of many connection between individual parts of		
		machines.  a) Point-to-Point network. c) Broadcast network.	<ul><li>b) People network</li><li>d) Specialized network</li></ul>	
	2)	consists of two distincts switching elements.  a) Host c) Intermediate System	ct components: transmission lines & b) Subnet d) Server	
	3)	Traditional LANs run at speeds of a) 20 to 100 c) 100 to 1000	to Mbps. b) 10 to 1000 d) 10 to 100	
٠	4)	What is the major factor that mathematical than twisted-pair cable?  a) Inner conductor c) Outer conductor	kes coaxial cable less at risk to noise b) Diameter of cable d) Insulating material	
	5)	Transmission media are usually c a) Fixed or unfixed c) Determinate or indeterm	b) Guided or unguided	
	6)	Which of the following physical co a)Twisted-pair c) Fiber-optic	onnection is the fastest? b)Coaxial cable d) Radio waves	
,	7)	Bit synchronization is responsible a)Data link layer c)Session layer	ility of b) Network layer d) Physical layer	
	8)	An artificial satellite needs to he travels around the Earth.  a) Channel c) Communication line	ave which is the path in which it  b) Tower es d) Orbit	
	9)	Which of the following is not a va a)1-persistent c) non-persistent	b)p-persistent d) persistent	
	10)	network has a single commall machines on the network.  a) Broadcast c) Both (a) and (b)	b) Point-to-point d) None of these	

Q-2		Fill in the Blanks and True/False.	[8]
	1	"Interconnected collection of autonomous computers" is known as	F J
	2	Point to Point network consists of many connection between individual	
		parts of machines. (True/False)	
	3	For long distance data transmission, is the preferable mode of	
		communication.	
	4	In a fiber-optic cable, the signal is propagated along the inner core by	
		Modulation.(True/False)	
,	5·	The signal from a satellite is normally aimed at a specific area called	
	6	Mail and directory service is responsibility of Presentation layer.	
		(True/False)	
	7	topology requires maximum cabling.	
	8	The Repeater can be used to solve problem of attenuation.(True/False)	
Q-3	•	Give Answers for the following:(Any ten)	[20]
	1.	List uses of computer networks.	L - J
	2.	What do you mean by Topology and server?	
	3.	What is DQDB?	
	4.	What is modulation? List various modulation techniques.	
	5.	Explain application of twisted pair in brief.	
	6.	List various transmission modes.	
	7.	Define Satellite. List categories of satellite.	
	8.	Explain footprint.	
	9.	List main responsibilities of data Link Layer and Network Layer.	
	10.	Write note on Broadcast network.	
	11.	What is the difference between router and switch?	
	12.	What are the advantages of bus topology over mesh topology?	
Q - 4		Give Answer for the following Questions. (Any Four)	[32]
	1.	Explain LAN and WAN.	
	2.	What are the advantages of computer networks? Explain in detail.	
	3.	Explain Synchronous transmission in detail.	
	4.	Explain coaxial cable in detail with its performance and applications.	
	5,	List all layers of OSI model. Explain any two layers.	
•	6.	Write a note on wireless network and geosynchronous satellite.	
	7.	List all topologies. Explain Star and Mesh topologies in detail.	
	8.	Explain working of repeater and bridge in detail.	