## (24)

SEAT No.\_\_\_\_

No. of Printed Pages: 02

## SARDAR PATEL UNIVERSITY

## T.Y.B.Sc.(INT) (SEM - VI) EXAMINATION MARCH/APRIL - 2019

	Ų	JS06CINT06 : Data Cor	nmunication & Netwo	rking		
Date:	: 04/04/2019 , Thus	s day Time:	10:00 to 01:00 PM	Total Marks	: : 70	
Q.1	Multiple choice q	uestions:	[10]			
1	Traditional LANs I	run at speeds of		[10]		
	A. 20 to 100	B. 10 to 1000	C. 100 to 1000	D. 10 to 100		
2	A is a data communication system within a building, plant, or campus, or					
	between nearby l	ouildings.	O/ I	or campas, or		
	A. MAN	B. LAN	C. WAN	D. None of above		
3	If a computer on the network shares resources for others to use, it is called					
	A. Server	B. Client		D. Router		
4	Cable is used for voice and data communications.					
	A. Coaxial			D. None of the above		
5	Which of the following physical connection is the fastest?					
	A. Twisted pair I	3. Coaxial cable	C. Fiber-optic cable	D. Radio waves		
6	A is a set of rules that govern data communications.					
	A. Layers	B. Network				
7	Dialog control and synchronization is responsibility of					
	A. Transport layer	B. Application layer	C. Network layer	D. Session layer		
8	Which of the following topology requires maximum cabling?					
	A. Bus	B. Star		D. Mesh		
9	A is actually a multiport repeater.					
	<u>(A) Hub</u>	(B) Bridge	(C) Router	(D) VLAN		
10	A can be used to connect two different networks that use different models.					
	(A) router	(B) switch	(C) gateway	(D) all of these		
0.2	Write a short note	on any 10			[20]	
	Write a short note on any 10.  1. How can we classify computer networks?.					
	2. Difference between broadcasting and multi casting.					
	3. Explain SUBNET in brief.					
	1. What is modulation? List various modulation techniques					
	6. Define the term	egories of Coaxial cabl				
	7. Write the full for	'				

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	9. Explain routing in brief.	
	10. Difference between: Repeater - Amplifier	
	11. Write a short note on Modem.	
	12. What is the difference between bridge and repeater?	
Q.3 (A)	Explain Local Area Network in detail.	[5]
Q.3 (B)	Define computer network. State the advantages and disadvantages of computer network.	[5]
	OR	
Q.3 (A)	Explain Wide Area Network.	[5]
Q.3 (B)	Discuss the importance of computer networking.	[5]
Q.4 (A)	Explain fiber optic in detail.	[5]
Q.4 (B)	Write the difference between circuit switching and packet switching.  OR	[5]
Q.4 (A)	What do you mean by Multiplexing? Differentiate between TDM and FDM	[5]
Q.4 (B)	Explain Synchronous transmission in detail	[5]
Q.5 (A)	Explain OSI reference model in detail.	[10]
	OR	
Q.5 (A)	Explain network topology with their advantages & disadvantages	[10]
Q.6(A)	Write a note on wireless network.	[4]
Q.6(B)	Write a detail note on Hub.	[6]
	OR	
Q.6(A)	Write a note on geosynchronous satellite.	[4]
Q.6(B)	Explain switch, router & gateway in detail.	[6]
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8. Define: Protocol Stack and Network architecture.