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## SARDAR PATEL UNIVERSITY

B.Sc. Semester VI (Electronics and Communication)

Subject Code: US06CELC06

Subject: Network Infrastructure Management

Date: 06/04/2018, Friday Time: 10.00 AM to 1.00 PM

**Total Marks: 70** 

Note: Figures to the right indicate maximum marks.

Q1		Choose the correct answer.	[10]
ŞΤ	1.	Computer Network is	
	1.	a) Collection of hardware components and computer	
		b) Sharing of resources and information	
		c) Interconnected by communication channels	
		d) All of the Above	
	2.	What is a Firewall in Computer Network?	
		a) The physical boundary of Network	
		b) An operating System of Computer Network	
		c) A web browsing Software	
		d) A system designed to prevent unauthorized access	
	3.	ACCITE to ACCITE to a Frequency range for	
		a) Satellite b) Omni directional c) Single mode d) Microwave	
	4.	What is the use of Bridge in Network?	
		a) to connect LANs b) to separate LANs	
		c) to control Network Speed d) None of all	
	5.	DNS is the abbreviation of	
		a) Dynamic Name System b) Domain Name System Demois Network Service	
		c) Dynamic Network System d) Domain Network Service	
	6.	For longer distance Fiber is used.  Single mode	
		a) Multimode b) Mono mode c) wireless d) Single mode	
	7.	What is the meaning of Bandwidth in Network?  a) Transmission capacity of a communication channels	
		b) Connected Computers in the Network	
		c) Class of IP used in Network	
		d) None of Above The topology has highest reliability	
	8.	a) Mesh b) Star c) Bus d) Ring	
	0	a) Mesh b) Star c) Bus d) Ring IPV4 Address is	
	9.	a) 8 bit b) 16 bit c) 32 bit d) 64 bit 54	
	4.0	Douter operates in which layer of OSI Reference Model?	
	10.	a) Layer 1 (Physical Layer) b) Layer 3 (Network Layer)	
		c) Layer 4 (Transport Layer) d) Layer 7 (Application Layer)	
		Of Dayor 1 (Tronsport - 1)	 [AA]
Q2		Answer in short. [ANY TEN]	[20]
Q2	1	Define: Network	
	2	What is the bridges and repeaters?	
	3	Describe Wireless transmission.	
	4	Draw the seven discrete Layers of TCP/IP protocol.	
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	5 6 7 8 9 10 11 12	Write a short note on World Wide Web (WWW).  What is the key difference between Physical and Logical Topology?  What are input and output devices of computer?  Define the Gateway of Computer Network.  Write down the various generations and its invented year.  Draw the layers of internet protocol.  Write down the network management group.  Write a note on HTTP.	
Q3	A B	Explain Security tools: Packet filtering and encryption.  Explain in detail multiplexers.  OR	[06] [04]
	Ā	Define Virtual private network.	[10]
Q4	A	Describe Open Systems Interconnection Reference model.  OR	[10]
Q4	A B	Describe Security strategy of Password management How to describe network management component.	[05] [05]
Q5	A	What is topology? Explain Bus, Star and Ring Topology with their advantages and disadvantages.	[07]
	В	What is the token passing and collision detection?  OR	[03]
Q5	A B	Discuss fully connected and combined topology in detail.  Discuss various generations of Computers.	[05 [05
Q6	A	Explain basic transmission medium concepts in details.  OR	[10
Q6	A B	Explain Transmission Control Protocol and Internet Protocol.  How to understand about Networking environment.	[05 [05