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SARDAR PATEL UNIVERSITY

External Examination (CBCS) (NC)

B. Sc. (Computer Science) – 5th - Semester US05CCSC04: Computer Networks

23th Mecember, Twesday – 2020

Time	.2:00 pm to <i>\</i> 4:00 pm			Total Marks:	70
Q-1	Select an appropriate option.				
1.	A computer network (a) Resources (l	c permits sharing o) Information	of (c) Both (a) & (b)	(d) None of these	
2.	whole world.		system spanning state	es, countries, or the (d) None of these	
	(a) MAN ((b) LAN	(c) WAN	(d) Notice of these	
3.	If a computer on the (a) Server	e network shares (b) Client	resources for others (c) Mainframe	to use, it is called (d) Router	paparija
4.	Which of the followi	ng modulation re (b) PSK	equires the lowest bar (c) FSK	ndwidth? (d) QPSK	
5.	What is the major factor that makes coaxial cable less at risk to noise than twisted-pair cable? (a) Inner Conductor (b) Outer conductor (c) Diameter of cable (d) Insulating material				
6.	Transmission media are usually categorized as (a) Fixed or unfixed (b) Guided or unguided (c) Determinate or indeterminate (d) Metallic or nonmetallic				
7.	The layer lie (a) Data link	s between the no (b) Physical	etwork layer and the a (c) Transport	application layer. (d) None of these	
8.	The path that a sate (a) An orbit	ellite makes arou (b) A period	ind the world is called (c) A footprint	l (d) An uplink	
9.	Which topology req (a) Star		ontroller or hub? (c) Bus	(d) Ring	
10.	Which topology req		nt connection? (c) Ring	(d) Bus	

Q-2	Fill in the blanks / True or False	(80)
1.	WAN stands for	
2.	A is a data communication system within a building, plant, or campus, or between nearby buildings.	
3.	cable is used for voice and data communications.	
4.	cable consists of an inner copper core and a second conducting outer sheath.	
5.	Internet layer is not present in OSI Model. (True / False)	
6.	The Physical layer changes bits into electromagnetic signals. (True / False)	
7.	A Hub is actually a multiport repeater. (True / False)	
8.	A cable break in a Star topology stops all transmission. (True / False)	
Q-3	Answer the following questions. (Attempt any TEN)	[20]
1.	Define computer networks.	
2.	How can we classify computer networks?	
3.	Define: (i) Data rate (ii) Modulation rate	
4.	Explain parallel transmission in brief.	
5. 6.	List the transmission modes. List the modulation techniques.	
7.	Write the full form: (i) HTTP (ii) FTP	
8.	Explain routing.	
9.	Explain multiplexing and demultiplexing.	
10.	List the various topologies for LAN.	
11.	Explain Gateway.	
12.	Explain hub.	
Q-4	Answer the following question. (Attempt any FOUR)	[32]
1.	Discuss the importance of computer networking.	
2.	What is LAN? List the characteristics of LAN.	
3.	Explain fiber optic in detail.	
4.	What is switching? Explain packet switching in detail.	
5. 6.	Explain OSI reference model in detail. Write a note on wireless network.	
7.	Explain Bus network with its advantages and disadvantages.	
8.	Explain Star network with its advantages and disadvantages.	
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