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Sardar Patel University **External Examination**

B. Sc. Computer Science-Fifth Semester US05CCSC04: COMPUTER NETWORKS Wednesday, 20th November - 2013

Time: 10:30 am to 01:30 pm			Total Mark	Total Marks: 70	
Q.1	Select the correct answer for	the following.		[10]	
1.	Using networking one can [A] share the resources [C] both A and B				
2.	A is a data communicati campus, or between nearby build [A] MAN [B] LAN [ings.			
	If a computer on the network sha called [A] server [B] client [6]		•		
4.	Which of the following modulation [A] ASK [B] PSK [6]				
5.	In a fiber-optic cable, the signal is [A] Reflection [B] Refraction [C				
6.	Which of the following physical connection is the fastest? [A] Twisted pair [B] Fiber-optic cable [C] Coaxial cable [D] Radio waves				
7.	Which layer is not present in OSI [A] Internet Layer [C] Physical Layer [I	B] Transport Lay	er yer		
3.	The layer lies between layer. [A] Data link [B] Physical [C]				
9.	A Bridge can [A] Filter a frame [[C] Extend a LAN [B] Forward a fra D] Do all the abo	me ove		
10.	A is actually a multipo [A] hub [B] bridge [C]	rt repeater. router	[D] VLAN		
2.2	Answer in short. (Attempt an	y TEN)		[20]	
1.	How can we classify computer networks?				
2.	What is MAN?				
3.	Define bandwidth and server.				

4.	List the modulation techniques.					
5.	Differentiate between single-mode fiber and multi-mode fiber.					
6.	Explain phase modulation with example in brief.					
7.	Write the full form of (i) DNS (ii) FTP.					
8.	Explain routing in brief.					
9.	Define bent pipe.					
10.	Explain modem with example in brief.					
11.	Explain Persistent CSMA in brief.					
12.	Explain different type of switches in brief.					
Q.3	[a] Define computer network. How can we classify it? Discuss need and disadvantages of it.	[05]				
	[b] What is LAN? List the characteristics of LAN.	[05]				
	OR					
Q.3	[a] Discuss the importance of computer networking.	[05]				
	[b] Write notes on Wide Area Network.	[05]				
Q.4	[a] What is switching? Explain packet switching in detail.	[05]				
	[b] Discuss in detail fiber optics transmission media and its advantage					
	OR					
Q.4	[a] Discuss time division switching along with its types in detail.	[05]				
	[b] Differentiate between guided and unguided media.	[05]				
٥.5	[a] White detail mate on OCI reference model	ra(\)				
Q.5	[a] Write detail note on OSI reference model.	[C]				
	[b] Write notes on wireless networks. [05] OR					
Q.5 [a] Write notes on communication satellite.						
Q.5	[b] List and explain design issues for layers.	[05] [05]				
	[b] List and explain design issues for layers.	[UJ]				
Q.6	Explain the function of following.	[10]				
	[i] Amplifiers [ii] Routers [iii] Gateway [iv] Hub [v] Bridges	54				
OR						
-	What is topology? List different types of topology. Explain any two topologies with advantages and disadvantages.	[10]				
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