

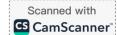
4	Date Page
1.	List some benefits of using computer network.
->	Networking of computers provides a communication link between the users, and provides access to information. Some benefits of using computer network one;
	Resource Shazing: In an organization, resources such as printers, fax machines and scanners are generally not required by each person at all times. Such resources can be made available to different users of the organization on the network. It enhances optimal use of the resource,
2.00	leads to easy maintenants, and saves cost too.
b)	Sharing of Information: In addition to sharing resources, networking facilitates charing of information. Information stored on facilitates networked computers located at some or different physical locations, becomes asse accessible to the compiters connected to the network.
c)	As a communication Medium: Netwooking helps in sending and seceiving of e-mails from anywhere in the world. Data in the form of text, audio, video and pictures can be sent electronically.
cl)	For Back-up and Suppost: Networked computers, in situation where there is a requirement of alway-on computer, can take over in case of failure of one computer.
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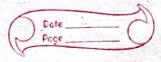


2. Why is communication protocol required in computer networks?

Communication protocols are used widely in networking they are set of protocols, Fromatted intropreted between devices in network. They specify details such as dato structure, timing, sequencing, error detection, and correction methods for effective communication. Connected devices would not be able to understand each Other's signals without the communication mis communication, data cooruption or loss. why communication protocols ensure that information is consistently and accupately vital for everything Bom sending exchanged A useful framework for understanding how these rules (open System Introconnection) are organised is the OSI divides network communications into seven distinct layers where each layer is responsible for specific functions.

In summary, communication protocols and models like the OSI are fundamental to building robust, efficient and interoperable networks.





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. 3.	femore	Ciacuit Switching	Pocket Switching
		Hard B. A. Landini Mas	TI IN A THOUSE
	Connection	Dedicated communication path	Data are divided into
	type	is established before transmission	Data are divided into packets that are sent independently
	Resource	Reserves a fixed amount of	Resources are shared dynamically
	Allocation	bandwidth for entire time.	Resources are shared dynamically among multiple transmissions
	Data	Data is transmitted in a	Data is broken into packets,
	Tansmission	scontinuous statams and aire	Data is broken into packets, which may take different routes
	Latency.	Lours latenty, but setup deline increases delay.	Potentially higher latency due to varying packet bavel time.
		time increases delay.	varying packet bavel time.
	fault	If a link in the path fails,	If one path fails, packets
*	Tolerance	the entire session is disholad.	If one path fails, packets can be se-routed dynamically.
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	Data	Data assives in the same order	Packets may assive out of
	Order.	if it ans sent made in the	order and need to be ocarranged.
	- into	is between smallhabe to be	Control to the control of the contro
	Examplest	Traditional telephone net-	Internet, VoIP, emails,
		works (PSTN)	on line streaming and most
	18.1	who is the state of the	modern inchworks.
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	A		A A A A A A A A A A A A A A A A A A A



For a two-story building with 15 computers on each floor, I would implement a Local Arcq Network (LAN) using a star topology. Since the computers are all located within a (a two-stody building) appropriate. LANS are designed to provide high-speed connectivity resource sharing within a limited geographical LAN's office low laterity, high data transfer maintanence, which two -story building for this condition, I would use star topology. In star topology, each computed is connected floor would have 15 computed These switches are then interconnected -stars topology that seamlessly added without disaupting