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Is bridge an intelligent device? If yes then how.

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What are the services provided by TCP?

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What are the functions that IP multicast abstraction allows an application running on an arbitrary computer to do?

Answer ([Please click here to Add Answer](#))

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What is the concept of Zero-compression regarding IPv6?

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Network administrator wants to get periodic updates of routing tables. Which routing algorithm would be used there? Give reason.

Answer ([Please click here to Add Answer](#))

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Host B send some IP datagram's to Host F. How does host F machine identify the entire original datagram? Support your answer with solid reason.

Answer ([Please click here to Add Answer](#))

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Is TCP an end to end protocol? Explain with the help of proper reason.

Answer ([Please click here to Add Answer](#))

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Which has responsibility for the propagation of multicast routing ? Explain it with help of example.

Answer ([Please click here to Add Answer](#))

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If we send a frame from one machine to another machine, what kind of data is being inside the frame and how can receiver know it ?

Answer ([Please click here to Add Answer](#))

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Network administrator's system receives some fragments of IP datagram. How does IP software reassemble fragments that arrive out of order?

Answer ([Please click here to Add Answer](#))

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In case of UDP, describe endpoint identification with protocol port numbers.

Answer ([Please click here to Add Answer](#))

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Why server is needed? Defend your answer with the help of example.

Answer ([Please click here to Add Answer](#))

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How many methods are available to span a bridge network over long distances? Just write their names.

Answer ([Please click here to Add Answer](#))

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Network engineer wants to implement an ARP technique in which protocol addresses must be independent from hardware addresses. Write the name of technique.

Answer ([Please click here to Add Answer](#))

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Which type of NAT fails when an application uses the IP address instead of domain name?

Answer ([Please click here to Add Answer](#))

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Which gateway protocol is mostly used as EGP? List its two properties.

Answer ([Please click here to Add Answer](#))

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What is the purpose of inserting extra characters between two frames? Which problems can occurs with it? List any two problems.

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Internet layer receives and sends packets for the network. It contains the powerful protocols like IP, ARP and ICMP. Which types of errors internet layer can detect? Just enlist any three names.

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Suppose an organization wants to share the transmission of multiple devices of its network with single publicly routable IP address. To achieve this goal it uses NAT. You are required to enlist the alternatives of NAT.

Answer ([Please click here to Add Answer](#))

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It is very tedious work to manage a multicast type of transmission in an IP network but some characteristics are there which not only make IP multicast easy but also make it unique. You are required to describe these characteristics in detail.

Answer ([Please click here to Add Answer](#))

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Suppose a medical firm wants to attain point to point communication in its computer network. Considering this scenario, discuss at least 5 disadvantages of it.

Answer ([Please click here to Add Answer](#))

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Suppose in a computer network of multinational company, network administrator's system receives some ARP messages while communicating with other system. Considering this scenario you are required to tell how does system deal these incoming ARP messages? Briefly explain each step that is involved in this process.

Answer ([Please click here to Add Answer](#))

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Suppose a security agency wants to reduce the risk of data being compromised in its TCP based computer network. Which process is used by TCP to establish reliable connection and explain the process by giving all steps involved in this process?

Answer ([Please click here to Add Answer](#))

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Suppose an organization has more than one autonomous system where EGP is used to exchange routing information between networks. Justify with reasons why EGP does not use routing metrics? Briefly explain with an example.

Answer ([Please click here to Add Answer](#))

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Name the classes of network on the basis of mobility.

Answer ([Please click here to Add Answer](#))

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In which ARP technique hardware address must be smaller than protocol address?

Answer ([Please click here to Add Answer](#))

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Which types of protocols are used to exchange internal and external routing information in autonomous groups? Just write the names.

Answer ([Please click here to Add Answer](#))

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Which protocol is capable of buffering the outgoing and incoming data in both directions?

Answer ([Please click here to Add Answer](#))

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Do all LAN technologies include a type field in frame? Justify your answer with three reasons.

Answer ([Please click here to Add Answer](#))

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Suppose a host B sends some IP datagram's to another host F. How host F machine will identify the lost fragment of IP datagram? Support your answer with solid reason.

Answer ([Please click here to Add Answer](#))

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Suppose an organization has multiple local area computer networks that are connected with each others through routers and RIP is used to manage routing information. You are required to write three main drawbacks of using RIP.

Answer ([Please click here to Add Answer](#))

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In data transmission, the probability of packet loss always remains there. In TCP, explain with reason which procedure will be adopted to overcome such network traffic condition? Also write the consequence that can be faced if the traffic is not resumed carefully.

Answer ([Please click here to Add Answer](#))

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If the reserved words of character stuffing are considered as a part of data in frames at the receiver side, which technique is required to overcome this situation and how it works? Briefly explain with the help of example.

Answer ([Please click here to Add Answer](#))

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Suppose ABC University has different heterogeneous computer networks where fragmentation technique is used to solve the problem of varied networks. How does it work with different MTU sizes datagrams? Justify your answer with at least five solid reasons.

Answer ([Please click here to Add Answer](#))

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Suppose an organization has a computer network where multicasting is required. There are different types of multicast routing protocols that can be used in this scenario. You are required to enlist five multicast routing protocols with complete names.

Answer ([Please click here to Add Answer](#))

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With multiple technologies in networking field where change in a routing table can happen frequently, does a router in the global Internet can still use static routing? In case of yes/no, how large is the routing table in a router? Support your answer with example.

Answer ([Please click here to Add Answer](#))

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Write any four factors by which computer networks can be classified.

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

Address Resolution Protocol is widely used in computer network for address mapping. Is ARP message format generally used for every frame format or has some restrictions for a specific frame format?

Answer ([Please click here to Add Answer](#))

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Which type of NAT fails when an application uses the IP address instead of domain name?

Answer ([Please click here to Add Answer](#))

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Which types of protocols are used to exchange internal and external routing information in autonomous groups? Just write the names.

Answer ([Please click here to Add Answer](#))

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TCP/IP supports different approaches of Address resolution algorithm in a real environment. Write their names.

Answer ([Please click here to Add Answer](#))

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Describe the structure of physical addressing in WAN. If you have a physical address (1, 5) on a switch then how will you elaborate this address?

Answer ([Please click here to Add Answer](#))

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User datagram protocol provides fast communication as compare to TCP while communicating between devices in computer network. Best effort delivery is also one service of UDP. What is the main purpose of this service and also write the real time example of UDP.

Answer ([Please click here to Add Answer](#))

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Answer ([Please click here to Add Answer](#))

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Suppose being a network engineer you are given a task to design such type of network which would be able to overcome failure by itself. Which network technology will you propose and how it will work?

Answer ([Please click here to Add Answer](#))

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Assume an enterprise is restructuring an existing network and decides to deploy IPv6 as the main protocol within the enterprise coexisting with IPv4. Does boundary limit exist in IPv6 addressing scheme and what types of special addressing are used in IPv6? Explain each type.

Answer ([Please click here to Add Answer](#))

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Answer ([Please click here to Add Answer](#))

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In which process, backward compatibility of 100-base-T is done?

Answer ([Please click here to Add Answer](#))

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During transmission of data from source to destination in a network of 50 computers, some packets contain errors. In this situation, which field of IP datagram header will indicate about errors?

Answer ([Please click here to Add Answer](#))

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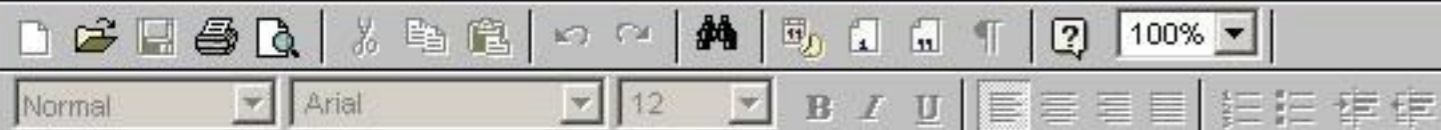


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UDP and IP belong to different layers in OSI model and have different functionalities. What is the main difference of functionality between internet protocol and user datagram protocol?

Answer ([Please click here to Add Answer](#))

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Answer ([Please click here to Add Answer](#))

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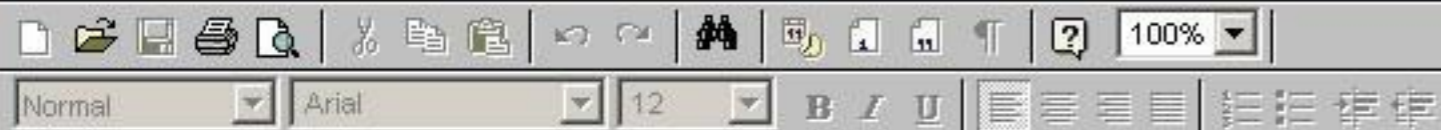


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Suppose an organization wants voice communication in network by using ATM technology. Explain, how ATM eliminate the varying delays associated with variable size data packets?

Answer ([Please click here to Add Answer](#))

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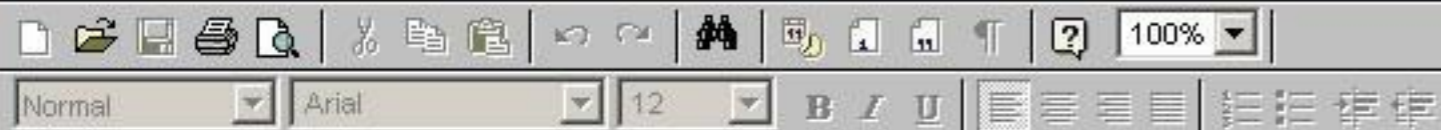


Made by: Waqar Siddhu

Suppose in a computer network of Leather Company, network engineer wants to examine whether an incoming Ethernet frame contains an ARP message or not. Which field of header will be used for this purpose and what specific value is used for it?

Answer ([Please click here to Add Answer](#))

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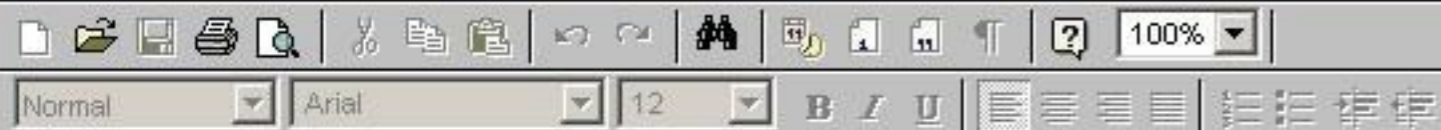


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Answer ([Please click here to Add Answer](#))

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Consider an organization where a large scale network is deployed having both the static and dynamic environment for routing. How a network administrator can handle this static and dynamic routing when some update or change is required?

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

As you know all current standards use the general frame format, write the names of five frame fields and mention how much space each field, contains?

Answer ([Please click here to Add Answer](#))

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Answer ([Please click here to Add Answer](#))

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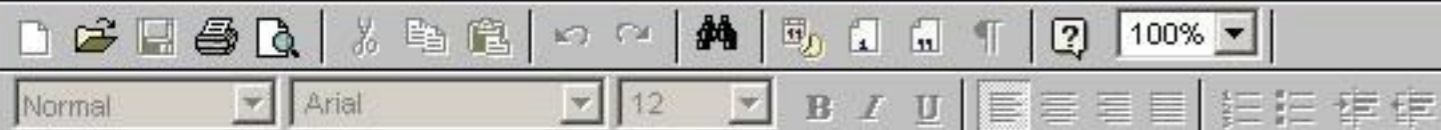
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Made by: Waqar Siddhu

In an organization where a large network is deployed and some remote location are connected to it. Write the name of the protocol that can be used for network troubleshooting. Also explain the ways it can be used.

Answer ([Please click here to Add Answer](#))

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With multiple technologies in networking field where change in a routing table can happen frequently, does a router in the global Internet can still use static routing? In case of yes/no, how large is the routing table in a router? Support your answer with example.

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Does TCP/IP protocol suite include an Address Resolution Protocol (ARP) and how many types of messages are used by ARP standard? Write their names.

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

Suppose a medical company has computer network where TCP is used for flow control of transmission. Which mechanism is used by TCP for controlling the flow of data?

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Which multicast protocol is designed to use within an organization? Give the complete name.

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

Which two identifiers in ATM are used to make virtual connection?

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

Is it necessary to use terminator at both ends of thin Ethernet cable? Give your answer with at least two reasons.

Answer ([Please click here to Add Answer](#))

VuAnswers.com

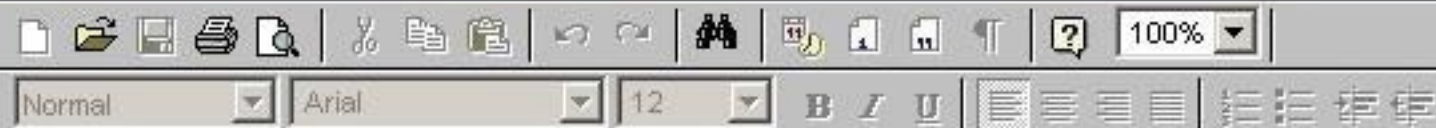


Made by: Waqar Siddhu

Internet layer receives and sends packets for the network. It contains the powerful protocols like IP, ARP and ICMP. Which types of errors internet layer can detect? Just enlist any three names.

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

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Answer ([Please click here to Add Answer](#))

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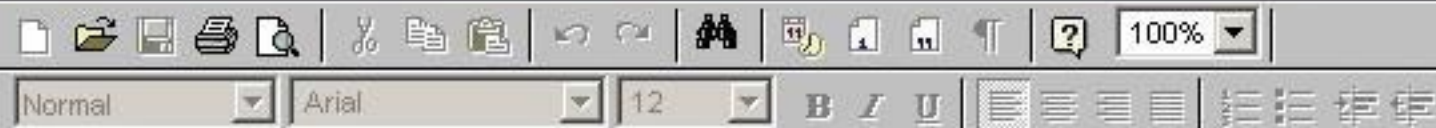


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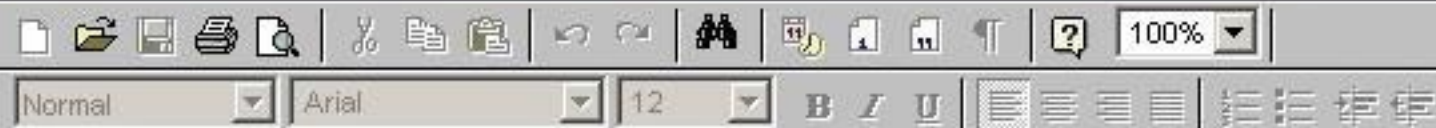


Made by: Waqar Siddhu

Maintaining the performance of a network is the key challenge for any network administrator. Network administrators usually use a specialized computer system in their network to keep themselves up-to-date with the performance of their network. You are required to write five main tasks performed by that computer in this regard.

Answer ([Please click here to Add Answer](#))

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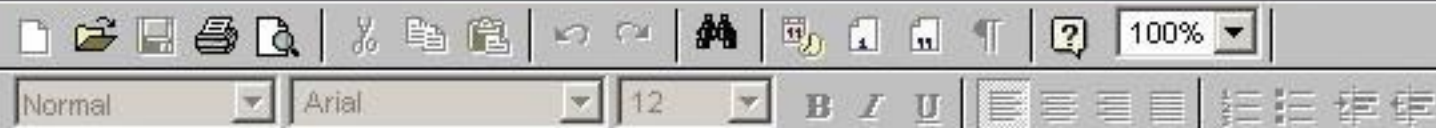


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Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Most of the networks in the world are using IPv4 at the time but there is a need of IPv6. Which circumstances enforce us to convert our networks to IPv6? Justify your answer with five proper reasons which depict that there is a need of IPv6.

Answer ([Please click here to Add Answer](#))

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Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Network operator needs a temporary virtual circuit for his network. Which type of ATM virtual circuit is most appropriate in this situation?

Answer ([Please click here to Add Answer](#))

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A rich text editor toolbar with various icons for document operations like save, print, undo, redo, bold, italic, underline, bulleted list, numbered list, and indent. It also includes a font color selector, a font size dropdown set to 12, and a zoom dropdown set to 100%.

Normal Arial 12 B I U [List Icons] [Zoom: 100%]

Made by: Waqar Siddhu

Which types of Network Address Translation (NAT) devices are available?

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

Suppose a computer B on segment 1 of a LAN sends a frame to a computer F on segment 2 of the same LAN. If the bridge receives the frame from B, just after restarted then in this case will the bridge broadcast the frame or just send it to a particular computer? Justify your answer with reason.

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

If the application selects a datagram size greater than MTU along the path to the destination. How to handle MTU in this situation? Explain the process that may be used to handle the stated situation.

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

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Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Reliability is the basic need of communication systems but some gateway protocols are considered unreliable. Discuss with reasons which gateway protocol is unreliable protocol for transportation of messages.

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

Suppose a security agency wants to reduce the risk of data being compromised in its TCP based computer network. Which process is used by TCP to establish reliable connection and explain the process by giving all steps involved in this process?

Answer ([Please click here to Add Answer](#))

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Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Suppose, as a Network Administrator of XYZ organization you are given a task to develop a network in a limited area with low cost, then which wiring scheme will you use? Justify your answer with four solid reasons.

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

A) An internet of four networks and three routers (R1, R2 and R3) with an IP address assigned to each router interface as shown in figure (a), write the routing table as shown in figure (b) found in R2, where each entry in the table lists a destination, mask, and the next hop used to reach the destination.

B) What will be the Hop count for a packet to reach from 192.4.10.0 to 30.0.0.0?

30.0.0.7

40.0.0.8

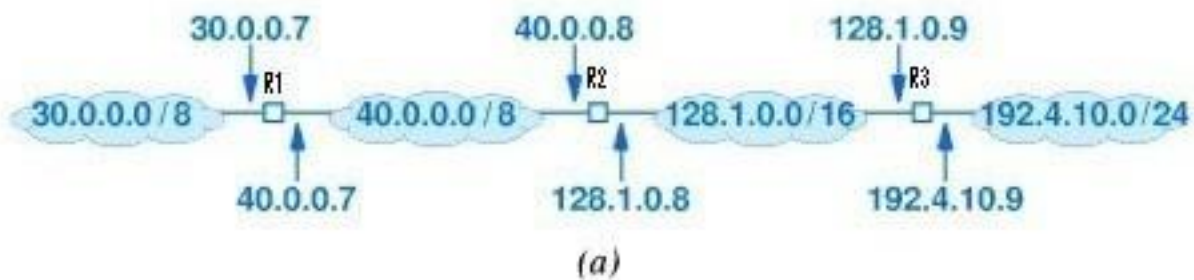
128.1.0.9

Answer ([Please click here to Add Answer](#))

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Answer (Please [click here](#) to Add Answer)

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(a)

Destination	Mask	Next Hop
30.0.0.0		
40.0.0.0		
128.1.0.0		
192.4.10.0		

Answer (Please [click here](#) to Add Answer)

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