

PAST PAPERS BY WAQAR SIDDHU

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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 th	hat IP multicast abstraction allows an application running on an arbitrary computer to do	s?
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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	e reason.
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Host B send some IP datagram's to Host F. How does host F machine identify the entire original datag	ram? Support your answer wit
Answer (Please <u>click here</u> to Add Answer)	
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th solid reason.





Is TCP an end to end protocol? Explain	with the help of proper reason.	
Answer (Please <u>click here</u> to Add Ans	wer)	
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Which has responsibility for the propagation of multicast routing ? Explain it with help of example.	
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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 ho	w can receiver know it ?
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Network administrator's system receives some fragments of IP datagram. How does IP software reasse	mble fragments that arrive o
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In case of UDP, describe endpoint identification with protocol port numbers.	
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Why server is needed? Defend your ans	swer with the help of example.	
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Question No : 41 of 52	
How many methods are available to span a bridge network over long distances? Just write their names.	
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Question No : 42 of 52	
Network engineer wants to implement an ARP technique in which protocol addresses must be independe	nt from hardware addresses. Write the n
Answer (Please <u>click here</u> to Add Answer)	VuAn
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name of technique.



Question No : 43 of 52	
Which type of NAT fails when an application uses the IP address instead of domain name?	
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Question No : 44 of 52	
Which gateway protocol is mostly used as EGP? List its two properties.	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No : 45 of 52	
What is the purpose of inserting extra characters between two frames? Which problems can occurs with it? I	List any two problems.
Answer(Please <u>click here</u> to Add Answer)	VuAns
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Question No : 46 of 52	
Internet layer receives and sends packets for the network. It contains the powerful protocols like IP, ARP and	ICMP. Which types of errors inten
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net layer can detect? Just enlist any three names.



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Suppose ar	n organization	wants to	share ti	ne transmission	of multiple	devices o	f its network	with	single publicly	routable I	? address.	To	achie
alternatives	of NAT.												

Answer	(Please	click here	to Add	Answer)	
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eve this goal it uses NAT. You are required to enlist the 📥

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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.

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Question No : 49 of 52	
Suppose a medical firm wants to attain point to point communication in its computer network. Considering thi	is scenario, discuss at least 5 disadva
Answer (Please <u>click here</u> to Add Answer)	VuAn
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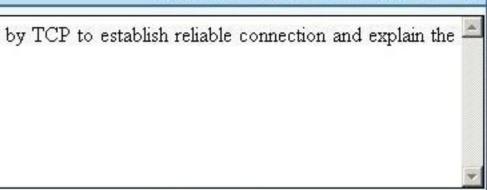
Suppose in a computer network of multinational company, network administrator's system receives some ARP messages while communicating with other system. Considering this scenario you are required to tell how does system deal these incoming ARP messages? Briefly explain each step that is involved in this process.

Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No : 51 of 52	
Suppose a security agency wants to reduce the risk of data being compromised in its TCP based computer network. V process by giving all steps involved in this process?	Which process is used
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Suppose	an	organization	has n	nore	than	one	autonomous	system	where	EGP	is used to	exchange	routing	information	between	networks.	Justif
Briefly exp	plai	n with an exa	ample.	1													

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fy with reasons why EGP does not use routing metrics? 📥



Question No : 41 of 52	
Name the classes of network on the basis of mobility.	
Answer(Please <u>click here</u> to Add Answer)	VuAn
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Question No : 42 of 52	
In which ARP technique hardware address must be smaller than protocol address?	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 43 of 52	
Which types of protocols are used to exchange internal and external routing information in autonomous group	os? Just write the names.
Answer(Please <u>click here</u> to Add Answer)	VuAns
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Question No : 44 of 52	
Which protocol is capable of buffering the outgoing and incoming data in both directions?	
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Question No : 45 of 52	
Do all LAN technologies include a type field in frame? Justify your answer with three reasons.	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 46 of 52	
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(Please <u>click here</u> to Add Answer)	VuAn
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answer with solid reason.



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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.

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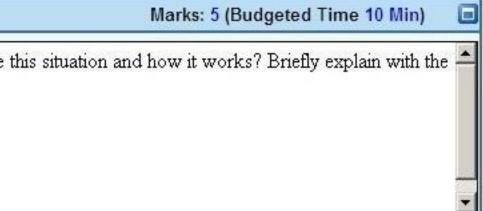
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Question No : 48 of 52	
In data transmission, the probability of packet loss always remains there. In TCP, explain w consequence that can be faced if the traffic is not resumed carefully.	rith reason which procedure will be adopted to o
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uestion No : 49 of 52	
If the reserved words of character stuffing are considered as a part of data in frames at the receiver side, w help of example.	which technique is required to overcome
nswer (Please <u>click here</u> to Add Answer)	VuAns
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Question No : 50 of 52	
Suppose ABC University has different heterogeneous computer networks where fragmentation technique is used to so datagrams? Justify your answer with at least five solid reasons.	olve the problem of varied no
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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.

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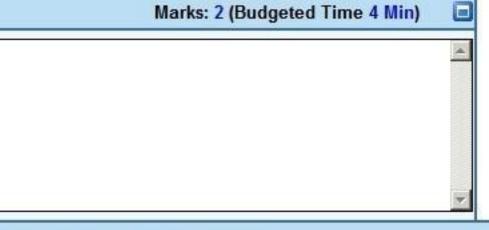
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Question No : 41 of 52	
Write any four factors by which computer networks can be classified.	
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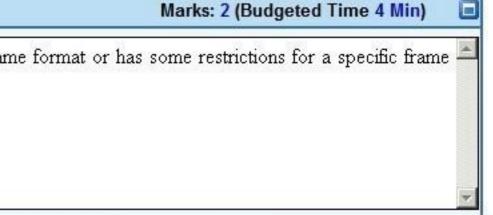
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Address Resolution Protocol is widely used in computer network for address mapping. Is ARP message format generally used for every frame format or has some restrictions for a specific frame format?

Answer (Please click here to Add Answer)

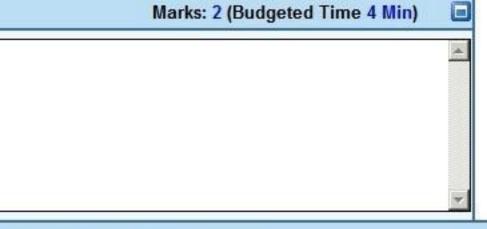
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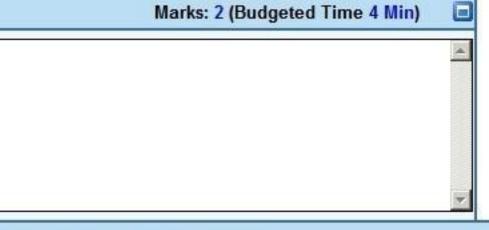
Question No : 43 of 52	
Which type of NAT fails when an application uses the IP address instead of domain name?	
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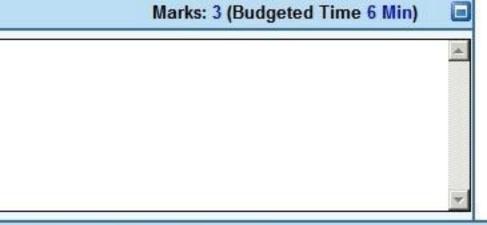
uestion No : 44 of 52	
Which types of protocols are used to exchange internal and external routing information in autonomous groups? J	ust write the names.
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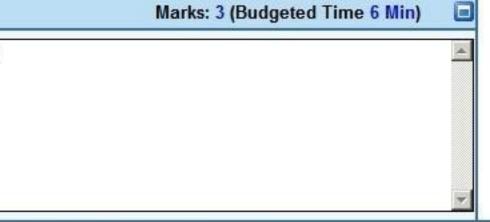


Question No : 45 of 52	
TCP/IP supports different approaches of Address resolution algorithm in a real environment. Write their names.	
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uestion No : 46 of 52	
Describe the structure of physical addressing in WAN. If you have a physical address (1, 5) on a switch then how	will you elaborate this address?
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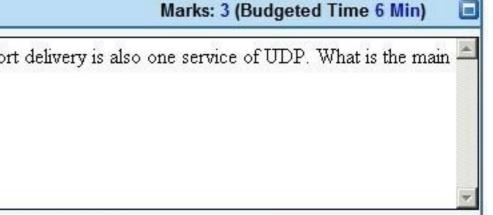
User datagram protocol provides fast communication as compare to TCP while communicating between devices in computer network. Best effort delivery is also one service of UDP. What is the main approace of this service and also write the real time example of UDP.

Answer (Please <u>click here</u> to Add Answer)

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Question No: 48 of 52

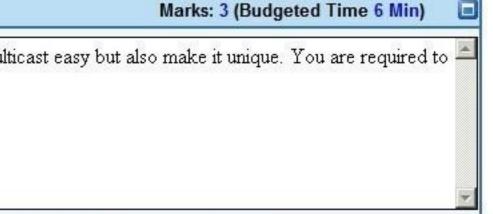
It is very tedious work to manage a multicast type of transmission in an IP network but some characteristics are there which not only make IP multicast easy but also make it unique. You are required to describe these characteristics in detail.

Answer (Please <u>click here</u> to Add Answer)

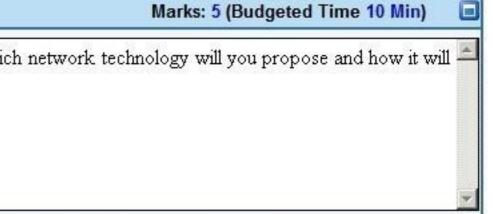
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Question No : 49 of 52	
Suppose being a network engineer you are given a task to design such type of network which would be able t work?	o overcome failure by itself. Whic
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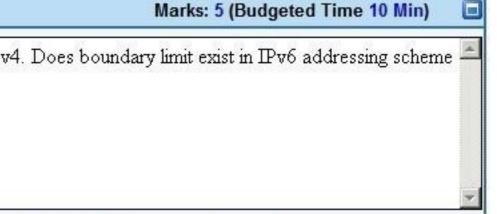
Assume an enterprise is restructuring an existing network and decides to deploy IPv6 as the main protocol within the enterprise coexisting with IPv4. Does boundary limit exist in IPv6 addressing scheme and what types of special addressing are used in IPv6? Explain each type.

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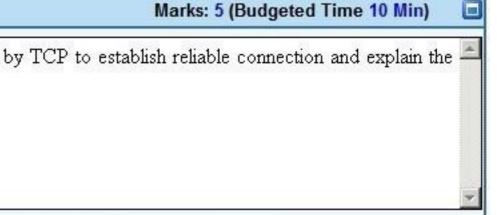
Suppose a security agency wants to reduce the risk of data being compromised in its TCP based computer network. Which process is used by TCP to establish reliable connection and explain the process by giving all steps involved in this process?

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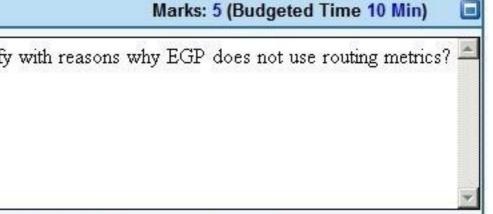
Suppose an organization has more than one autonomous system where EGP is used to exchange routing information between networks. Justify with reasons why EGP does not use routing metrics? — Briefly explain with an example.

Answer (Please <u>click here</u> to Add Answer)

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In which process, backward compatibility of 100-base-T is done?	
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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 3 Answer (Please click here to Add Answer) VUANS VUANS Vormal Arial VIZUBZUESE EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE		
VUAIIN Normal ▼ Arial ▼ 12 ▼ B I U E E E E E E E E E	During transmission of data from source to destination in a network of 50 computers, some packets o	contain errors. In this situation, which field of IP
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P datagram header will indicate about errors?



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



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

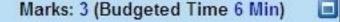


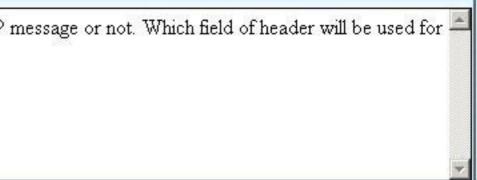
Question No: 46 of 52

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?

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Question No: 47 of 52

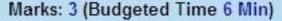
Suppose an organization has multiple local area computer networks that are connected with each others through routers and RIP is used to manage routing information. You are required to write three main drawbacks of using RIP.

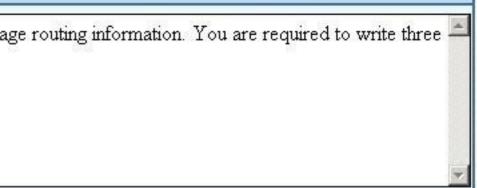
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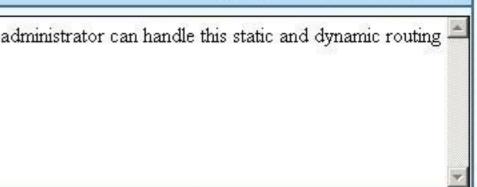




Question No: 48 of 52

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

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As you know all current standards use the general frame format, write the names of five frame fields and men	tion how much space each field, contai
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No : 50 of 52

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.

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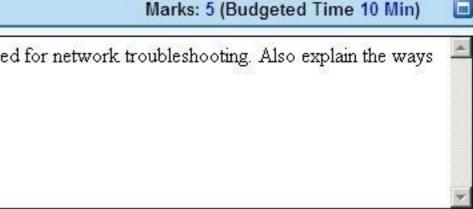
In an organization where a large network is deployed and some remote location are connected to it. Write the name of the protocol that can be used for network troubleshooting. Also explain the ways it can be used.

Answer (Please <u>click here</u> to Add Answer)

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Question No : 52 of 52

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 <u>click here</u> to Add Answer)	VuAns
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Question No : 41 of 52	
Does TCP/IP protocol suite include an Address Resolution Protocol (ARP) and how many types of messag	ges are used by ARP standard? Write
Answer (Please <u>click here</u> to Add Answer)	VuAn
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their names.





Question No : 42 of 52	
Suppose a medical company has computer network where TCP is used for flow control of trar	nsmission. Which mechanism is used by TCP for contro
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 43 of 52	
Which multicast protocol is designed to use within an organization? Give the complete name.	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No : 44 of 52	
Which two identifiers in ATM are used to make virtual connection?	
Answer (Please <u>click here</u> to Add Answer)	VuAn
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Question No : 45 of 52	
Is it necessary to use terminator at both ends of thin Ethernet cable? Give your answer with at least two reasons.	
Answer (Please <u>click here</u> to Add Answer)	VuAns
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Question No : 46 of 52	
Internet layer receives and sends packets for the network. It contains the powerful protocols like IP, ARP and ICM	P. Which types of errors interr
Answer (Please <u>click here</u> to Add Answer)	VuAns
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net layer can detect? Just enlist any three names.



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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

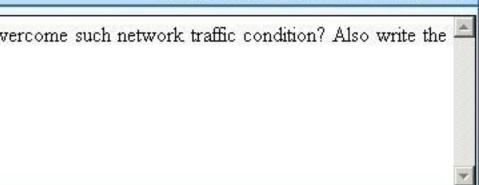
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Question No : 48 of 52

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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llticast easy but also make it unique. You are required to

Question	No: 49	of 52
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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.

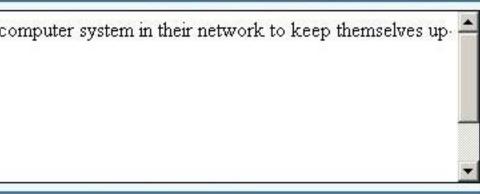
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Suppose an organization has a computer network where multicasting is required. There are different types of multicast routing protocols that can be used in this scenario. You are required to enlist five multicast routing protocols with complete names.

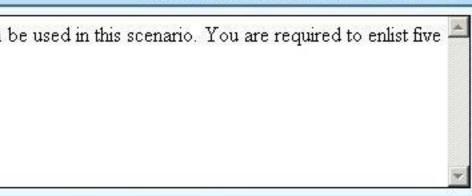
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Question No : 51 of 52

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.

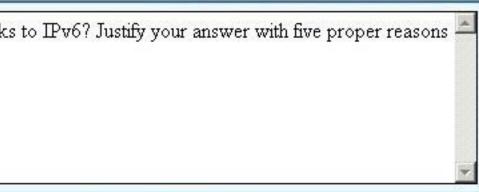
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With multiple technologies in networking field where change in a routing table can happen frequently, does a router in the global Internet can still use static routing? In case of yes/no, how large is the routing table in a router? Support your answer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

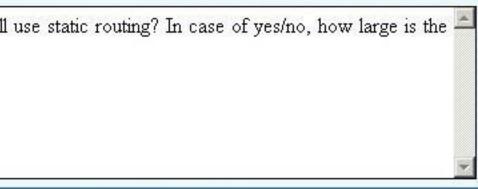
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Question No : 41 of 52	
Network operator needs a temporary virtual circuit for his network. Which type of ATM virtual circuit is	most appropriate in this situation?
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Question No : 42 of 52	
Does TCP/IP protocol suite include an Address Resolution Protocol (ARP) and how many types of messages	s are used by ARP standard? Write
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Question No : 43 of 52	
Which multicast protocol is designed to use within an organization? Give the complete name.	
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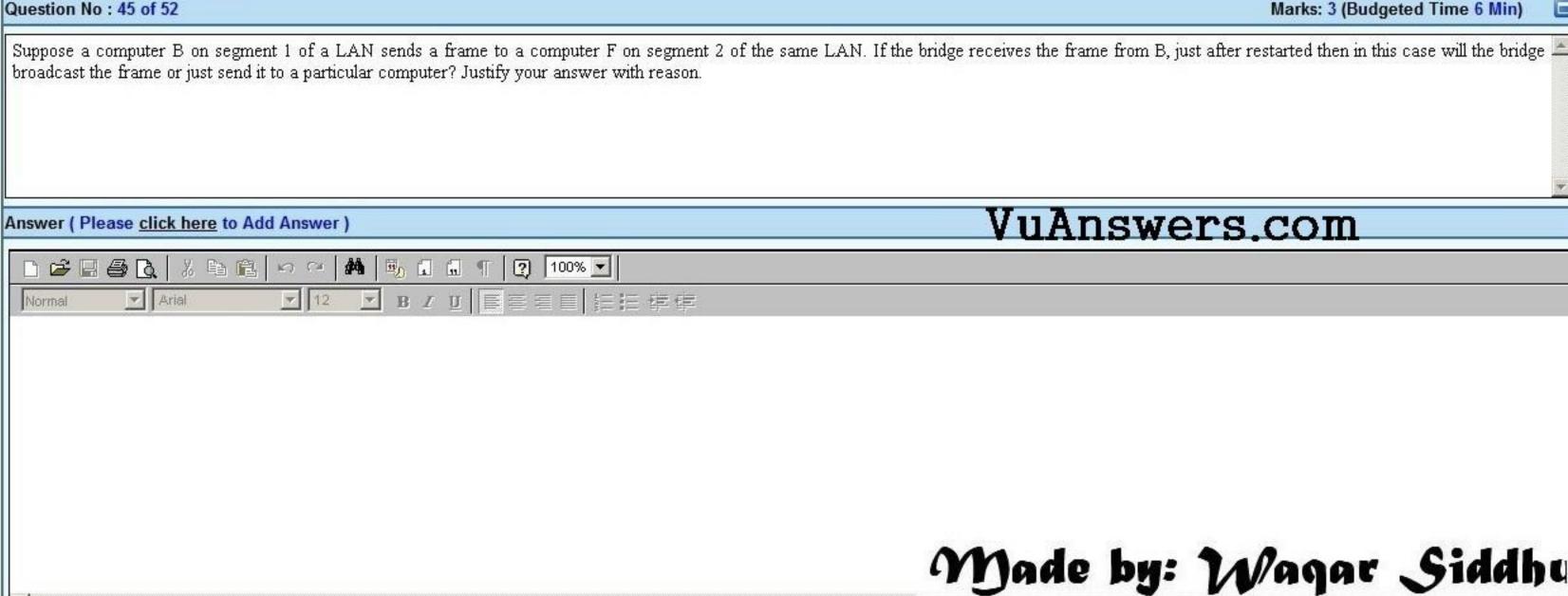


Question No : 44 of 52	
Which types of Network Address Translation (NAT) devices are available?	
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Question	N	0:	45	of	52
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Question No : 46 of 52	
If the application selects a datagram size greater than MTU along the path to the destination. How to handle	MTU in this situation? Explain the pro
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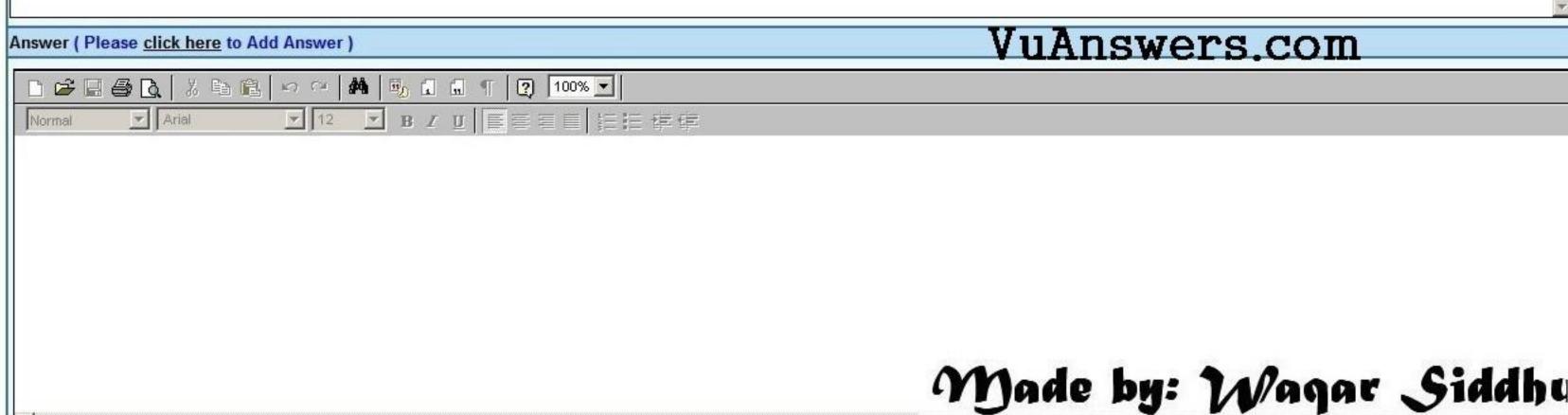
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ocess that may be used to handle the stated situation.



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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?



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Question	No:	48 o	f 52

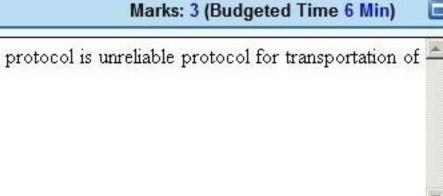
Reliability is the basic need of communication systems but some gateway protocols are considered unreliable. Discuss with reasons which gateway protocol is unreliable protocol for transportation of 🛎 messages.

Answer (Please click here to Add Answer)

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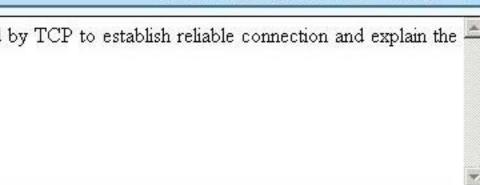
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Question No : 49 of 52	
Suppose a security agency wants to reduce the risk of data being compromised in its TCP based comp process by giving all steps involved in this process?	uter network. Which process is used
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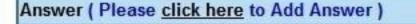
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Question No : 50 of 52	Q	ues	tion	No	: 5	j0 (of 52
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Suppose an organization has a computer network where multicasting is required. There are different types of multicast routing protocols that can be used in this scenario. You are required to enlist five multicast routing protocols with complete names.



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Question No : 51 of 52

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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Question No : 52 of 52



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Question No : 52 of 52

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