

# VIRTUAL UNIVERSITY OF PAKISTAN

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CORRECT ANSWER SOLVED BY HADI  
EMAIL: hadirajputofficial@gmail.com  
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## (Final Term Past Paper)

(Made by Waqar & Solved By Hadi)

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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**FACEBOOK ID: <https://www.facebook.com/hadipastpapers/>**

Best of luck!



Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

ATM was designed for \_\_\_\_\_ and use a \_\_\_\_\_

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Answer ( Please select your correct option )

- LANs, Connectionless service paradigm
- WANs, Connectionless service paradigm
- Both LANs and WANs, Connectionless service paradigm
- Both LANs and WANs, Connection-oriented service paradigm



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Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ protocols of TCP/IP layering model specify how to ensure reliable transfer.

Answer ( Please select your correct option )

Physical Layer

Network Interface Layer

Internet Layer

Transport Layer



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Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

----- have advantages arisen from the size and ease of computation.

Answer ( Please select your correct option )

CRC

Parity

Checksums

VRC



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Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

A ----- relies on the hardware manufacturer to assign a unique physical address to each network interface.

Answer ( Please select your correct option )

- Burned MAC
- Static addressing scheme
- Configurable addressing scheme
- Dynamic addressing scheme



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Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

A ----- provides mechanism that a customer can use to set a physical address.

Answer ( Please select your correct option )

- Static addressing scheme
- Configurable addressing scheme
- Dynamic addressing scheme
- Masking



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Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ identifies which application program on receiving computer should receive the data

Answer ( Please select your correct option )

Logical address  
 Source port  
 Logical address

Source port

Destination Port

Physical Address



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Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ identifies the application program that sent the data.

Answer ( Please select your correct option )

Destination Port

Source port

Logical address

Physical Address



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Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

The Border Gateway Protocol (BGP) uses \_\_\_\_\_ for all communication

Answer ( Please select your correct option )

- UDP
- Both UDP and TCP
- TCP/IP
- TCP



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Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is exterior routing protocol?

Answer ( Please select your correct option )

RIP and OSPF

RIP

OSPF

BGP



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\_\_\_\_\_ is ideal in a situation where the group is geographically dispersed (i-e., has a few members at each site, with sites separated by long distances).

Answer ( Please select your correct option )

Flood-and -Prune

Configuration-and -Tunneling

Core-Based Discovery



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\_\_\_\_\_ message is encapsulated in an \_\_\_\_\_ datagram and sent across the Internet.

Answer ( Please select your correct option )

IP, TCP

TCP, IP

TCP, UDP



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Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ message is encapsulated in an \_\_\_\_\_ datagram and sent across the Internet.

Answer ( Please select your correct option )

- IP, TCP
- TCP, IP
- TCP, UDP
- UDP, TCP



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Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

"Frame type" field of the header consists of \_\_\_\_\_ bits.

Answer ( Please select your correct option )

8

10

16

32



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Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ senses a signal on a cable and then transmits an amplified copy of the signal.

Answer ( Please select your correct option )

- Bridge
- Hub
- Transceiver
- Repeater



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Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

One repeater \_\_\_\_\_, two repeaters \_\_\_\_\_ the maximum cable length limitation.

Answer ( Please select your correct option )

Square root, Cube root

Double, Triple

Triple, Quad

Double, Quad



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Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

If router detects datagram \_\_\_\_\_ than network MTU then it splits the datagram into pieces and each piece should be \_\_\_\_\_ than outbound network MTU.

Answer ( Please select your correct option )

Larger, smaller

Smaller, larger

Larger, larger

Smaller, smaller



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Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

In IPv6 the type of address used for collection of computers with same prefix is known as \_\_\_\_\_.

Answer ( Please select your correct option )

- Cluster
- Unicast
- Multicast
- Anycast



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\_\_\_\_\_ provides application-to-application communication, also called end-to-end communication.

Answer ( Please select your correct option )

IP

Transport Protocol

RIP

ARP



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Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following are interior routing protocols ?

Answer ( Please select your correct option )

- RIP and BGP
- OSPF and BGP
- BGP and OSPF
- RIP and OSPF

Correct answer solved by Hadi



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\_\_\_\_\_ use IP-in-IP encapsulation to send multicast datagrams from one site on the Internet to another.

Answer ( Please select your correct option )

- Distance Vector Multicast Routing Protocol
- Core Based Trees
- Protocol Independent Multicast\_ Sparse Mode
- Protocol Independent Multicast \_ Dense Mode



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Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

A multicast routing scheme in which the protocol software builds a delivery tree from a central point is called \_\_\_\_\_.

Answer ( Please select your correct option )

- Protocol Independent Multicast \_ Sparse Mode
- Protocol Independent Multicast \_ Dense Mode
- Distance Vector Multicast Routing Protocol
- Core Based Trees



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Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

Network part of IP address needs not to be stored in \_\_\_\_\_ approach of ARP.

Answer ( Please select your correct option )

- Closed-form computation
- Message Exchange
- Table look-up
- Direct indexing



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Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

In which method of Address Resolution Protocol, address change affects all hosts?

Where "T" stands for Table lookup, "C" for Closed-form Computation and "D" for Data Exchange.

Answer ( Please select your correct option )

- T
- C
- D
- T, C



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Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

In which method of Address Resolution Protocol the protocol address is independent of hardware address?

Where "T" stands for Table lookup, "C" for Closed-form Computation and "D" for Data Exchange

Answer ( Please select your correct option )

T, C

D

C

T, D



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Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ has no way to determine the cause of the problem.

Answer ( Please select your correct option )

ICMP

ARP

Ping

Traceroute



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Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

Most LANs that employ ring topology use an access mechanism known as \_\_\_\_\_.

Answer ( Please select your correct option )

CSMA/CD

CSMA/CA

Token Passing

Aloha



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Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

The product of delay and throughput measures the \_\_\_\_\_ of data that can be presented on the network.

Answer ( Please select your correct option )

Area

Volume

Length

Size



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Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ places the boundary between the second and third octets.

Answer ( Please select your correct option )

Class A

Class B

Class C

Class D



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Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

An Internet Address (IPv4 address) is a unique \_\_\_\_\_ binary number assigned to a host and used for all communication with other hosts.

Answer ( Please select your correct option )

48-bit



32-bit



24-bit



12-bit



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Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

11000001.10000011.00011011.11111111

The above address is of class \_\_\_\_\_ .

Answer ( Please select your correct option )

A

E

C

D



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Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

Find the class of the address.

10100111.11011011.10001011.01101111

Answer ( Please select your correct option )

A

B

E

C



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Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

Address mask defines how many bits of address are in \_\_\_\_\_.

Answer ( Please select your correct option )

Suffix

Frame

Prefix

Packet



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Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

In the \_\_\_\_\_ large organizations began to acquire multiple networks.

Answer ( Please select your correct option )

1990s

1970s

1960s

1950s



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Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

TCP/IP defines the term \_\_\_\_\_ to refer any computer system that connects to internet and gets services.

Answer ( Please select your correct option )

- Router
- Host Computer
- Bridge
- Hub



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Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

IPng stands for \_\_\_\_\_.

Answer ( Please select your correct option )

IP New Generation

IP N<sup>th</sup> Generation

IP Next Generation

IP Net Generation



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Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

Router that decrements TTL to \_\_\_\_\_ and sends ICMP time exceeded message with router's address as source address.

Answer ( Please select your correct option )

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Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

Both UDP and TCP are \_\_\_\_\_ layer protocols

Answer ( Please select your correct option )

Physical

Data link

Network

Transport



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Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

Reliability is the responsibility of the \_\_\_\_\_ layer

Answer ( Please select your correct option )

Network

Data link

Transport

Application



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Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is called an end-to-end protocol because it provide a connection directly from an application on one computer to an application on a remote computer.

Answer ( Please select your correct option )

UDP

TCP

ICMP

IP



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Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

OSPF is based on \_\_\_\_\_.

Answer ( Please select your correct option )

- Distance vector routing
- Link state routing
- Path vector routing
- Distance vector routing and Link state routing



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Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

A OSPF area is \_\_\_\_\_.

Answer ( Please select your correct option )

- A collection stub area
- A part of an Autonomous System
- Composed of at least two Autonomous Systems
- A complete Autonomous System



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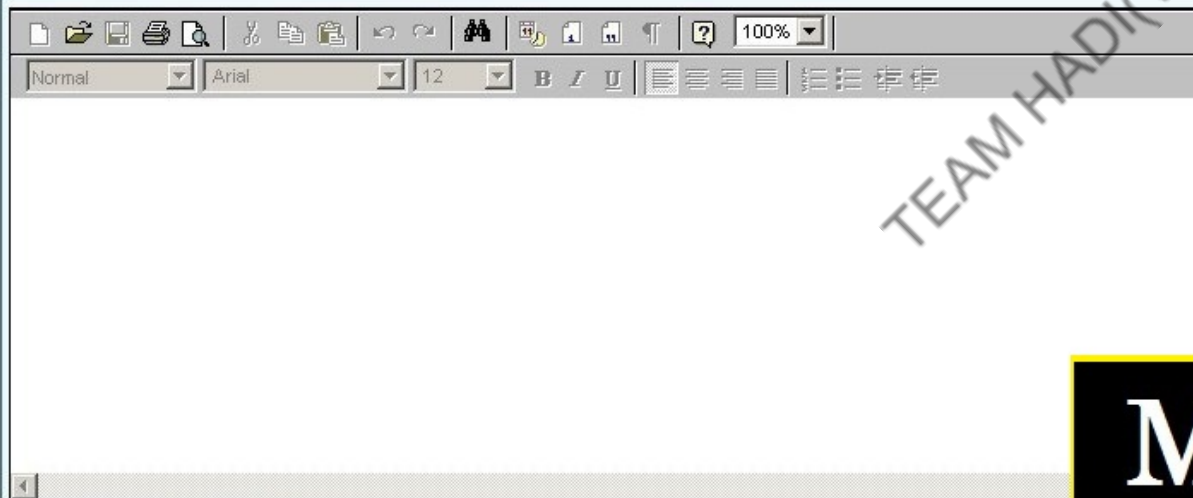
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Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

Name the classes of network on the basis of mobility.

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



A rich text editor toolbar with various icons for file operations (save, print, search), editing (undo, redo, bold, italic, underline), and formatting (bullet points, numbered lists, indent). The font is set to Arial, size 12, and the zoom level is 100%.



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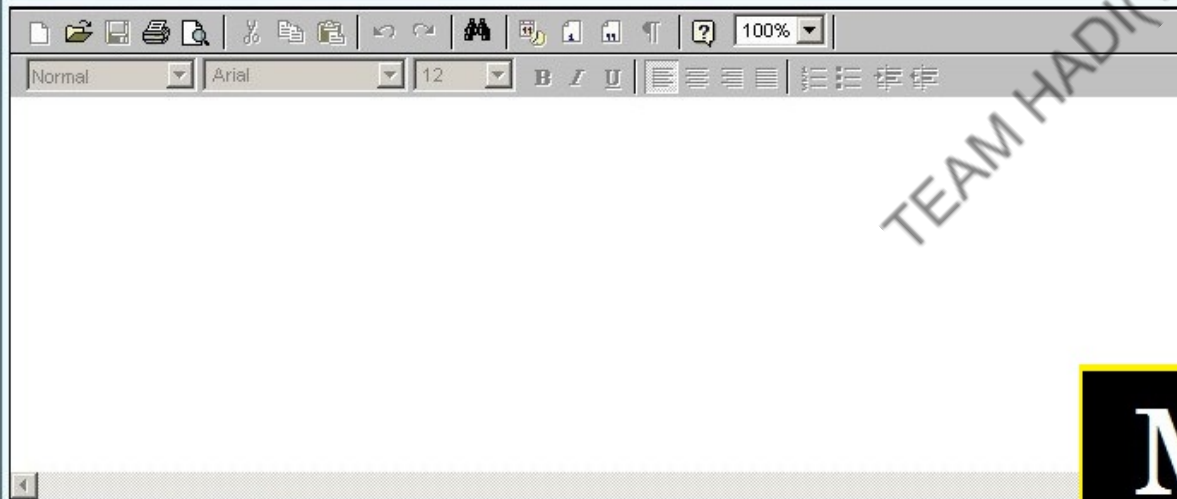
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Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

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

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



A screenshot of a rich text editor interface. The toolbar includes icons for file operations (save, print, search), editing (undo, redo, bold, italic, underline), and alignment. The font settings are set to 'Normal', 'Arial', and size '12'. A watermark 'TEAM HADIVU' is visible diagonally across the editor area.



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Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

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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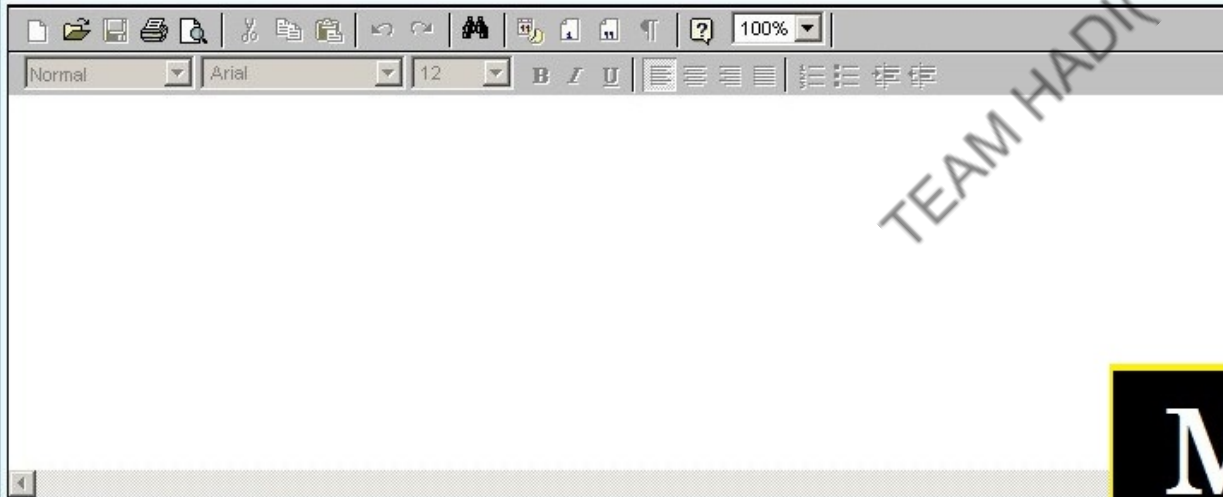
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Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

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

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



The image shows a rich text editor interface. The toolbar includes icons for file operations (save, print, search), editing (undo, redo, bold, italic, underline), and text alignment. The font settings are set to Arial, size 12. A large, diagonal watermark reading "TEAM HADIVU" is overlaid on the editor area.



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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 )



A screenshot of a Microsoft Word document showing the ribbon with various editing tools. A large, semi-transparent watermark reading "TEAM HADIVU" is overlaid diagonally across the page. The watermark is accompanied by a circular image of a man and a woman smiling while working on a laptop. To the right of the image, the text "HADI VU PAST PAPER" is written in a large, serif font, with a vertical column of numbers (0, 3, 0, 8, 7, 1, 2, 2, 9, 2, 2) positioned between the words.



A circular inset image showing a man and a woman smiling while working on a laptop. To the right of the image, the text "HADI VU PAST PAPER" is written in a large, serif font, with a vertical column of numbers (0, 3, 0, 8, 7, 1, 2, 2, 9, 2, 2) positioned between the words.

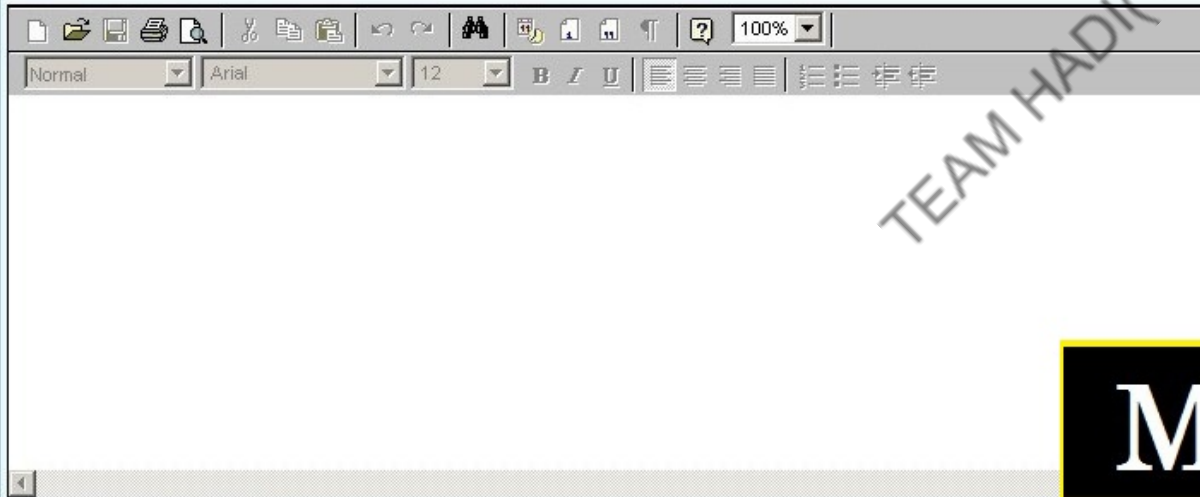
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Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

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](#) )



The image shows a rich text editor interface. At the top, there is a toolbar with various icons for file operations (save, print, search), editing (undo, redo, bold, italic, underline), and alignment. Below the toolbar, the text area is mostly empty, with a few faint characters visible. A watermark 'TEAM HADIVU' is overlaid diagonally across the editor area.



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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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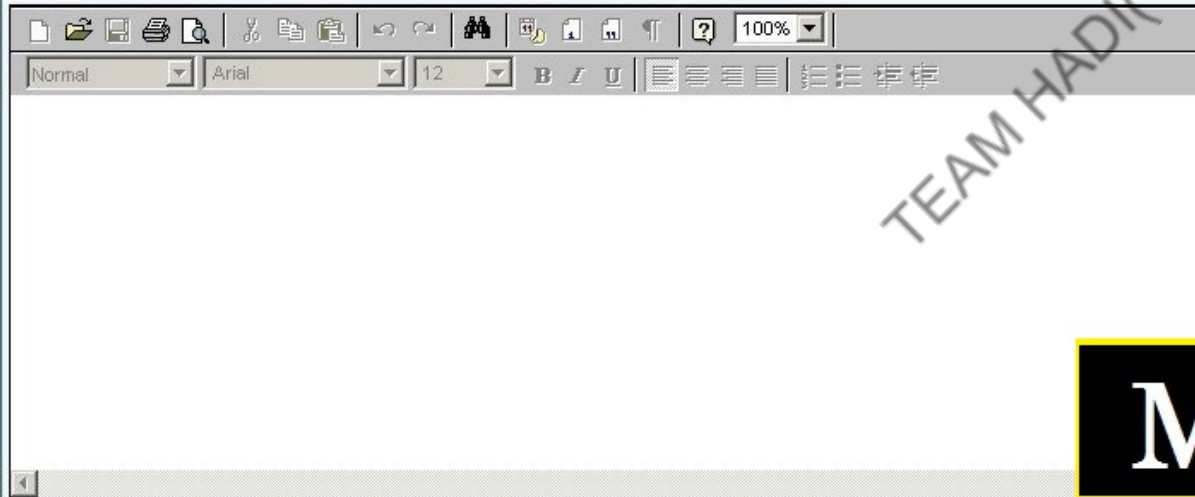
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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

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](#) )



The image shows a rich text editor interface. The toolbar includes icons for file operations (save, print, search), editing (undo, redo, bold, italic, underline), and alignment. The font settings are set to Arial, size 12. A large, diagonal watermark reading "TEAM HADIVU" is overlaid on the editor area.



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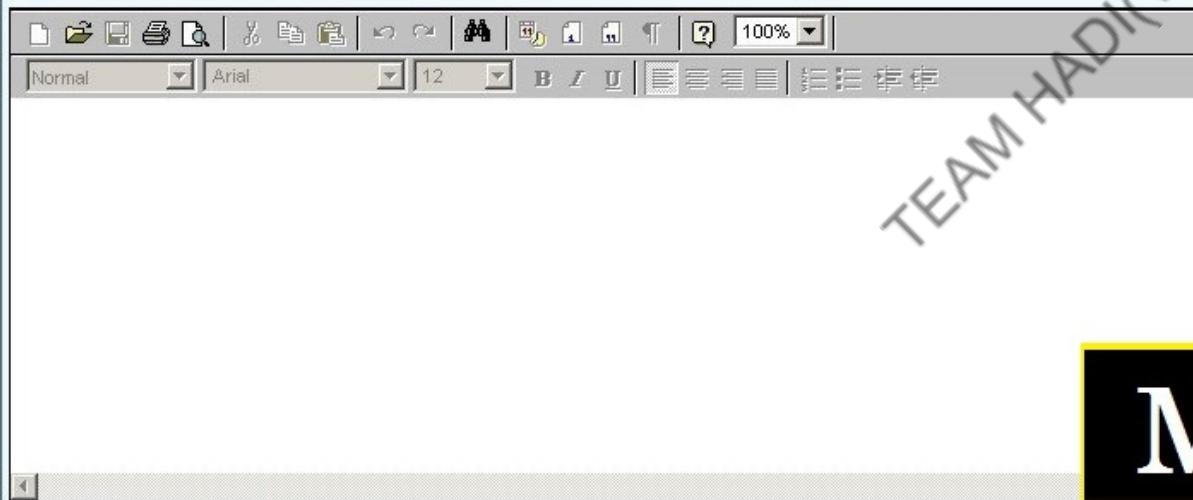
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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

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](#) )



The image shows a rich text editor interface. The toolbar includes icons for file operations (save, print, search), editing (undo, redo, bold, italic, underline), and alignment. The font settings are set to Arial, size 12. A large, diagonal watermark reading "TEAM HADIVU" is overlaid on the editor area.



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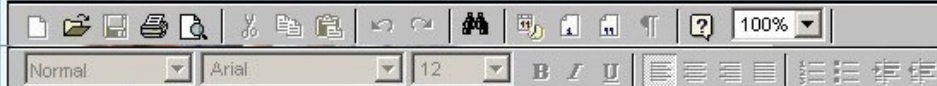
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Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

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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Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

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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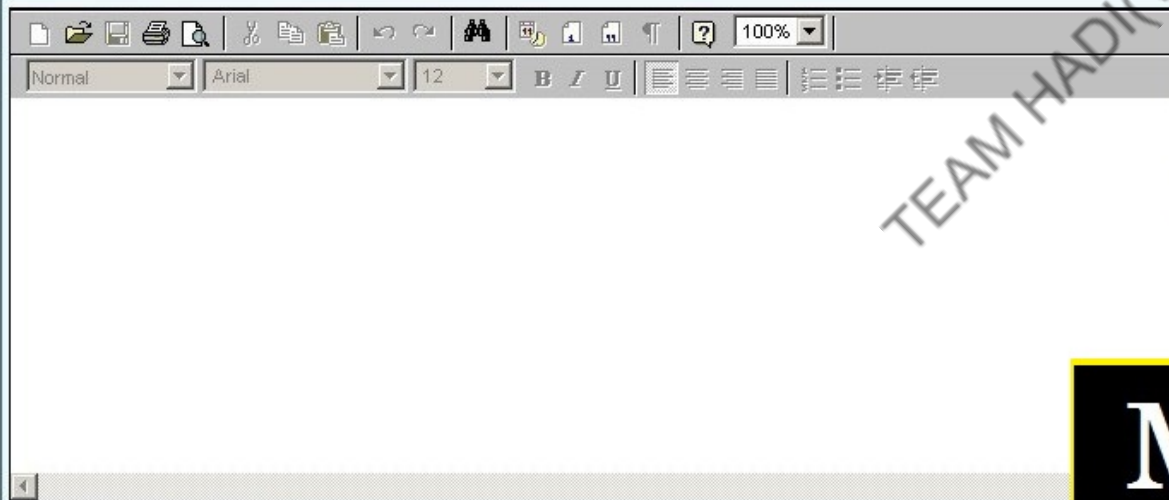
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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

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 )



The image shows a rich text editor interface. At the top, there is a toolbar with various icons for text formatting and editing. Below the toolbar, there is a large empty text area for writing an answer. The text area is currently blank.



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