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بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِيْمِ

In the Name of Allāh, the Most Gracious, the Most Merciful

Paper Pattern

MCQS 40 each 1 mark
Short 4 each 2 marks
Short 4 each 3 marks
long 4 each 5 marks

Question No : 1 of 52 Marks: 1 (Budgeted Time 1 Min)

ATM was designed for _____ and use a_____

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 ✓

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 ✓

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

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)

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

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

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

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

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)

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

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
- OSPF
- BGP ✓
- RIP and OSPF

Question No : 10 of 52 Marks: 1 (Budgeted Time 1 Min)

_____ 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)

- Forwarding
- Flood-and -Prune
- Configuration-and -Tunneling ✓
- Core-Based Discovery

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

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 doubt
- 32

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)

- Repeater
- Bridge
- Hub
- Transceiver

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

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

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

Question No : 17 of 52 Marks: 1 (Budgeted Time 1 Min)

_____ provides application-to-application communication, also called end-to-end communication.

Answer (Please select your correct option)

- IP
- Transport Protocol ✓
- RIP
- ARP

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 ✓

Question No : 19 of 52 Marks: 1 (Budgeted Time 1 Min)

_____ 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

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 ✓

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)

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

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

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

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

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

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

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

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

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)

- C
- D
- A
- E

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

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

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

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

Question No : 34 of 52 Marks: 1 (Budgeted Time 1 Min)

IPng stands for _____.

Answer (Please select your correct option)

- IP New Generation
- IP Nth Generation
- IP Next Generation ✓
- IP Net Generation

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)

- 3
- 2
- 1
- 0 ✓

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

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

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

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

Question No : 40 of 52 Marks: 1 (Budgeted Time 1 Min)

A OSPF area is _____.

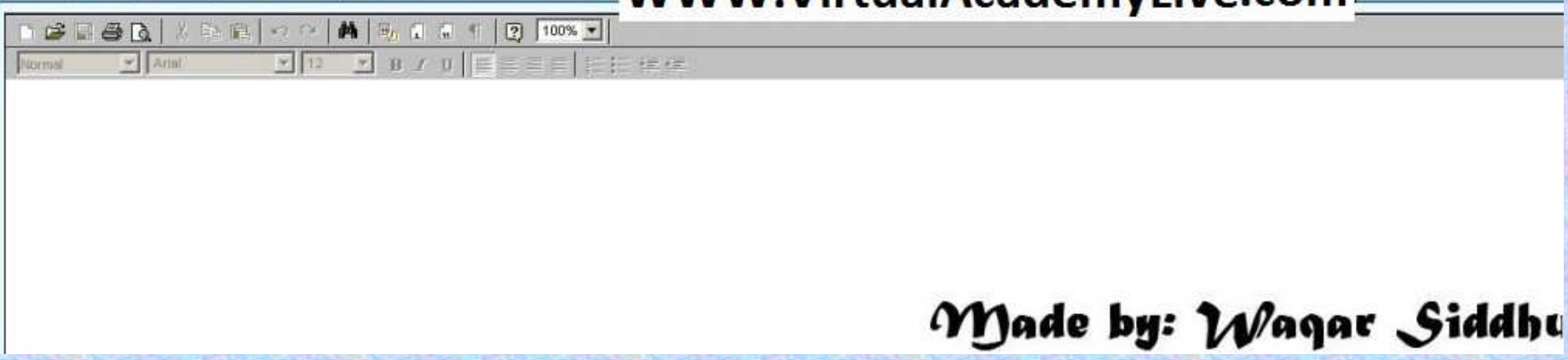
Answer (Please select your correct option)

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

Question No : 41 of 52 Marks: 2 (Budgeted Time 4 Min)

Name the classes of network on the basis of mobility.

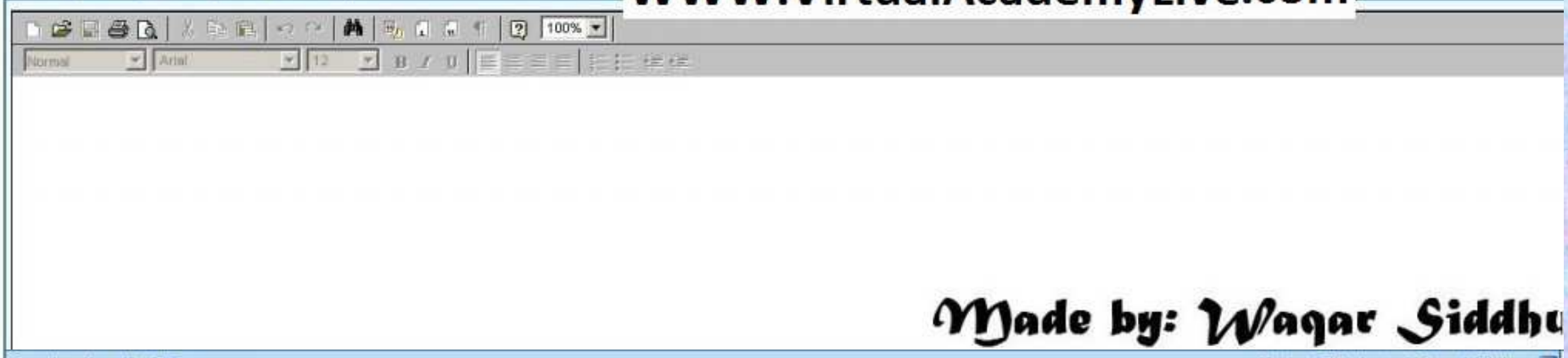
Answer (Please click here to Add Answer)



Question No : 42 of 52 Marks: 2 (Budgeted Time 4 Min)

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

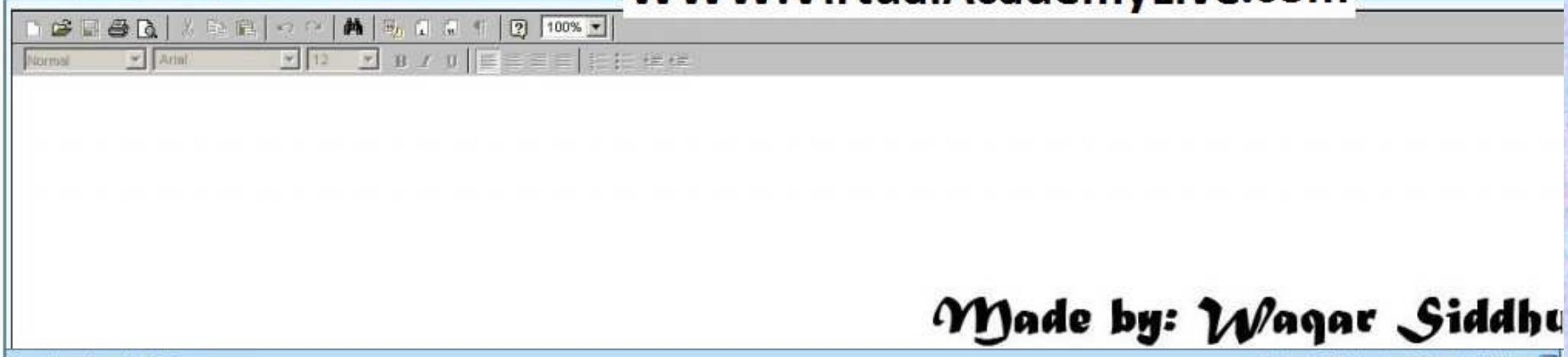
Answer (Please click here to Add Answer)



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.

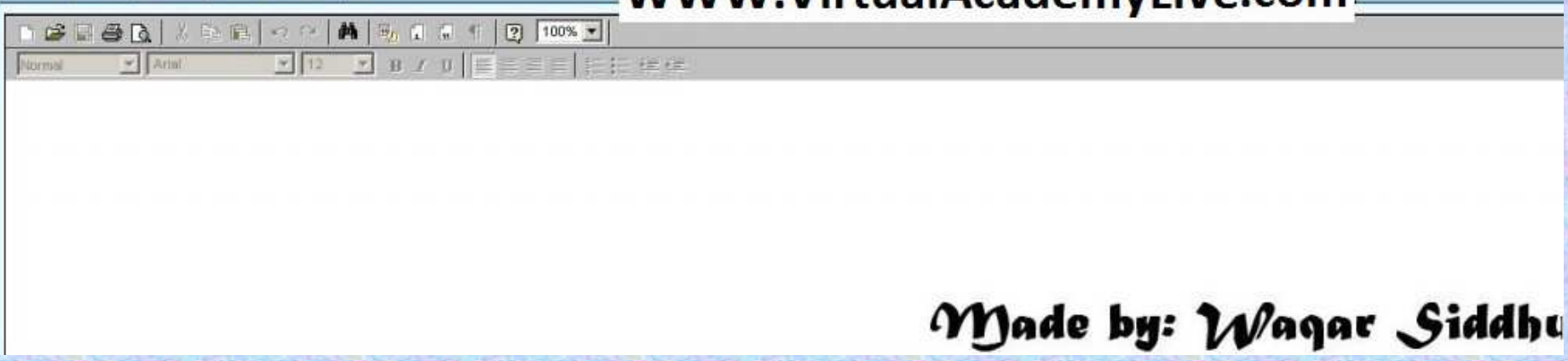
Answer (Please click here to Add Answer)



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?

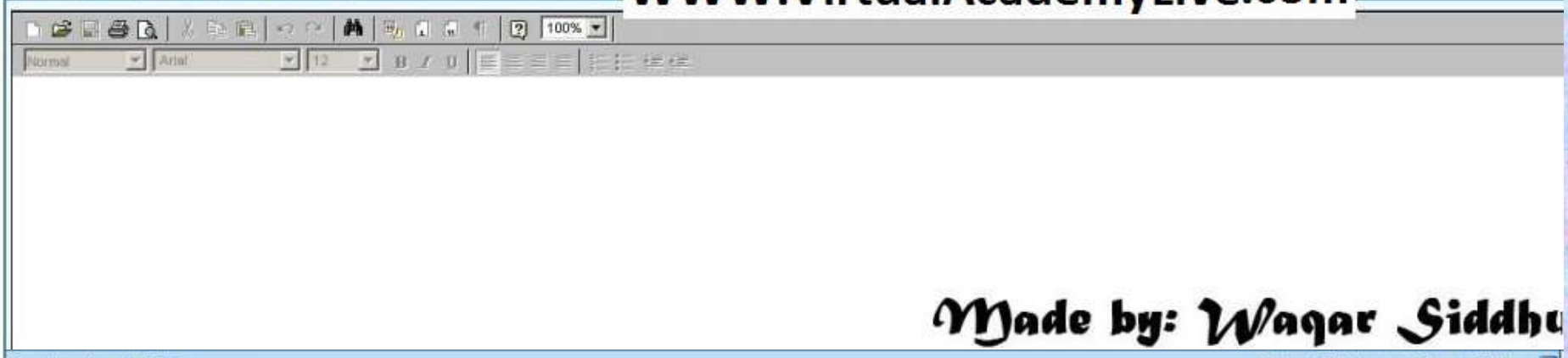
Answer (Please click here to Add Answer)



Question No : 45 of 52 Marks: 3 (Budgeted Time 6 Min)

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

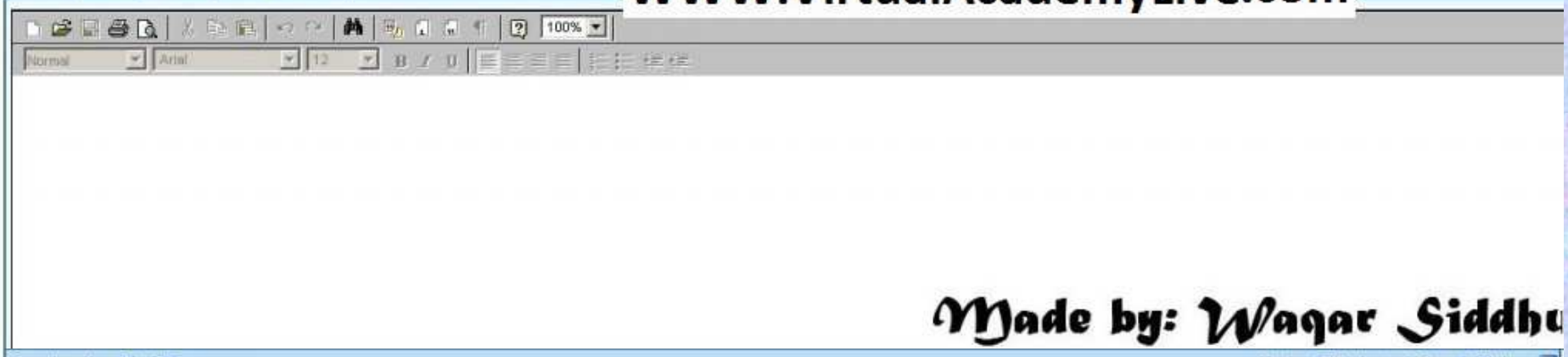
Answer (Please click here to Add Answer)



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.

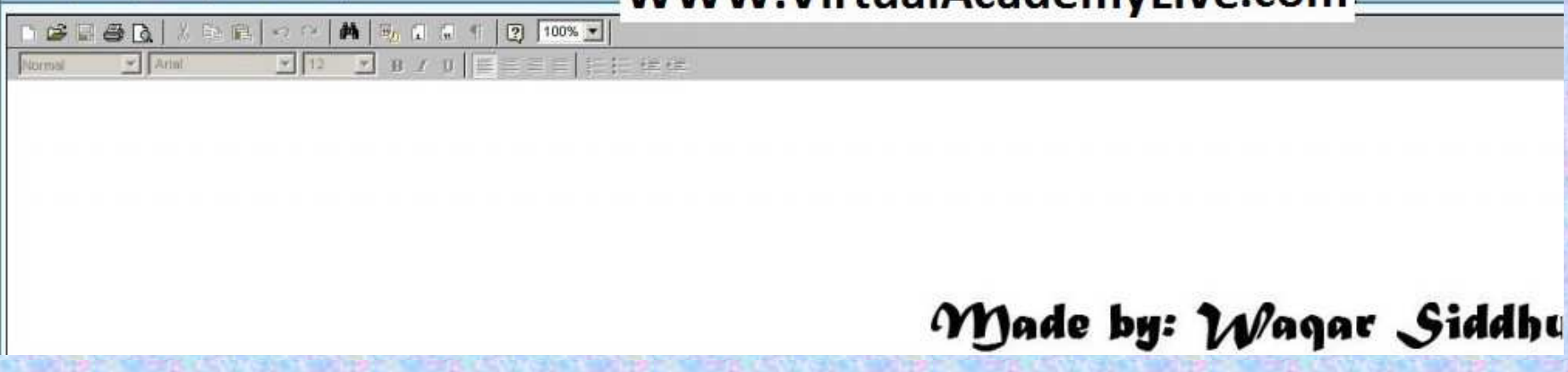
Answer (Please click here to Add Answer)



Question No : 47 of 52 Marks: 3 (Budgeted Time 6 Min)

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.

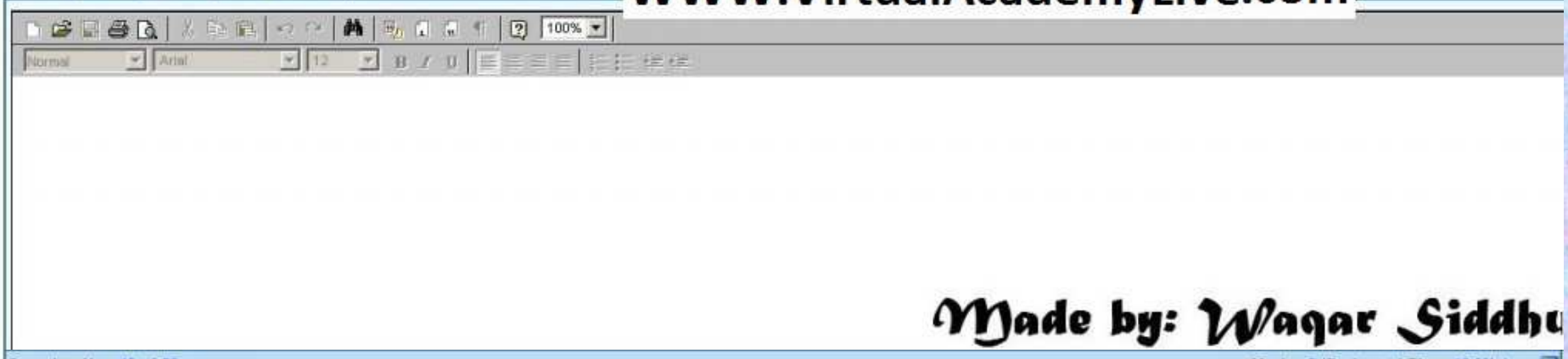
Answer (Please click here to Add Answer)



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)



Question No : 49 of 52 Marks: 5 (Budgeted Time 10 Min)

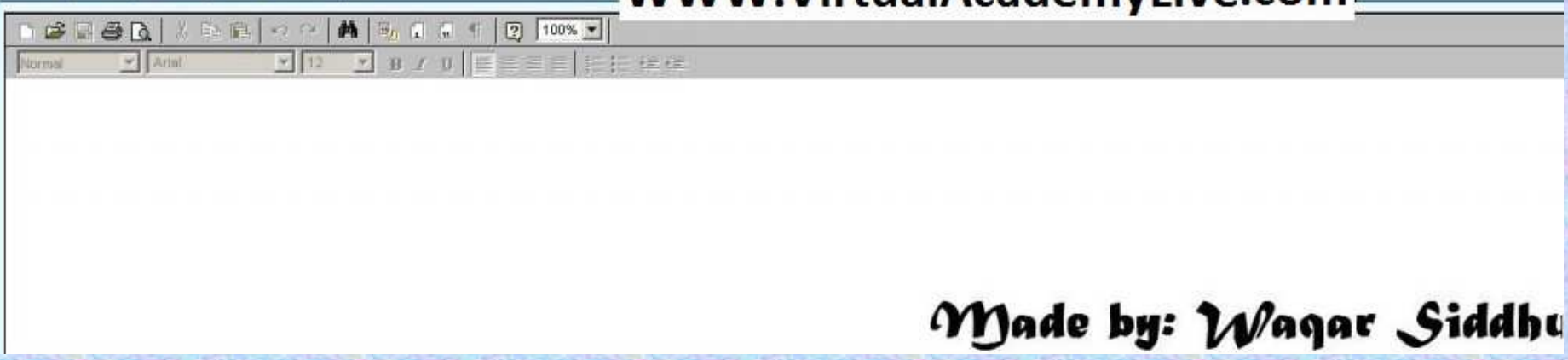
If the reserved words of character stuffing are considered as a part of data in frames at the receiver side, which technique is required to overcome this situation and how it works? Briefly explain with the help of example.

Answer (Please click here to Add Answer)

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.

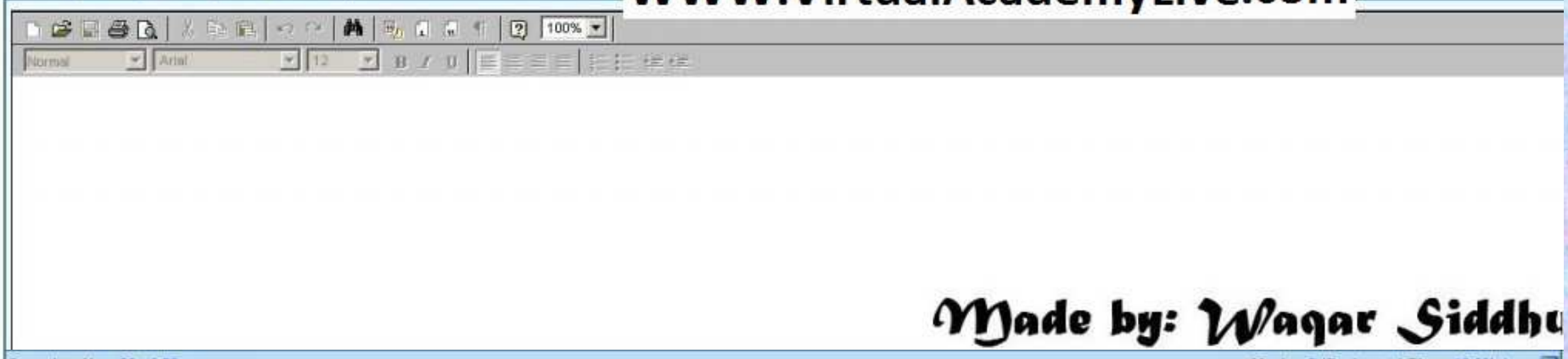
Answer (Please click here to Add Answer)



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)



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)