



Virtual University  
About Us

CS610  
Solved Final Term Paper 1

[Waqar.siddhu@gmail.com](mailto:Waqar.siddhu@gmail.com)

Year  
2017

For More Plz Visit

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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)

A network that permits many sources to take turns accessing a shared communication resource is providing a form of -----

Answer ( Please select your correct option ) [WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- Packet Division Multiplexing
- Time Division Multiplexing
- Frequency Division Multiplexing
- Wave Division Multiplexing

**Made by: Waqar Siddhu**

Question No : 2 of 52 Marks: 1 (Budgeted Time 1 Min)

If the sending computer crashes before transmitting a complete frame, the----- will not arrive, and the receiver will know that the frame is -----

Answer ( Please select your correct option ) [WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- eot, complete doubt
- soh, complete
- soh, incomplete
- eot, incomplete

**Made by: Waqar Siddhu**

Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

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

**Made by: Waqar Siddhu**

Question No : 4 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- Physical Layer
- Network Interface Layer
- Internet Layer
- Transport Layer

**Made by: Waqar Siddhu**

Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

The interconnection of two or more networks, usually local area networks so that data can pass between hosts on the different networks as though they were one network, this requires some kind of \_\_\_\_\_, which led to the motivation for internetworking.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- Router and Gateway
- Router or software
- Router or Gateway
- Switch

**Made by: Waqar Siddhu**

Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

In the \_\_\_\_\_ large organizations began to acquire multiple networks. Each network in the organization formed island. Employees needed to choose a computer appropriate for each task. So they needed multiple screens, keyboards and computers.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

1990s

1970s

1960s

1950s

**Made by: Waqar Siddhu**

Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

Which method of Address Resolution Protocol is useful with any hardware?

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

T

C

D

C, D

**Made by: Waqar Siddhu**

Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

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

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

T

C

D

T, C

**Made by: Waqar Siddhu**

Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

We use the term \_\_\_\_\_ to refer to a measure of the path that routing software use when choosing a route.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

routing path

routing metric

routing

switching

**Made by: Waqar Siddhu**

Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

Incase of TCP retransmission, acknowledgement from a computer on a local area network are expected to arrive within few, \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

seconds

**idea**

microseconds

milliseconds

nanoseconds

**Made by: Waqar Siddhu**

Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

Part of the 3-way handshake used to create a connection, requires each end to generate a random \_\_\_\_\_ sequence number.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

8-bit

64-bit

32-bit

16-bit

**Made by: Waqar Siddhu**

Which of the following protocol uses UDP for all message transmission?

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

RIP



OSPF

BGP

RIP and OSPF

**Made by: Waqar Siddhu**

A OSPF area is -----

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Part of an Autonomous System



Composed of at least two As's

Another term of an internet

A collection stub area

**Made by: Waqar Siddhu**

Start Time 8:48 PM

13

Dotted decimal notation is a syntactic form the IP software uses to express \_\_\_ bit binary values when interacting with humans.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

16

24

32



64

**Made by: Waqar Siddhu**

Start Time 8:48 PM

14

Typical internet routing uses a combination of two metrics \_\_\_\_\_.

Answer ( Please select your correct option )

administrative cost and routing metrics.

WWW.VirtualAcademyLive.com

administrative count and hop cost

administrative cost and hop count

routing metrics and hop count **:ooO doubt**

Made by: Waqar Siddhu

Start Time: 8:48 PM

15

Hardware that calculates a CRC uses two simple components.

Answer ( Please select your correct option )

AND unit with XOR unit

WWW.VirtualAcademyLive.com

Shift register with XOR unit ✓

Shift register with AND unit

Shift register with shift XOR unit

Made by: Waqar Siddhu

Start Time: 8:48 PM

16

A network uses a ----- to arranges computers to be connected in a single closed loop.

Answer ( Please select your correct option )

Star Topology

WWW.VirtualAcademyLive.com

Ring Topology ✓

Bus Topology

Dual Ring Topology

Made by: Waqar Siddhu

Start Time: 8:48 PM

17

Computers attached to an ethernet use ----- in which a computer waits for the ether to be idle before transmitting a frame.

Answer ( Please select your correct option )

CSMA/CD

WWW.VirtualAcademyLive.com

CSMA/CA

TOKEN PASSING

Round Robin

Made by: Waqar Siddhu

Start Time: 8:48 PM

10

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

Answer ( Please select your correct option )

Burned MAC

WWW.VirtualAcademyLive.com

Static addressing scheme

Configurable addressing scheme

Dynamic addressing scheme

Made by: Waqar Siddhu

Start Time: 8:48 PM

10

A network with throughput T and delay D would have a total no of \_\_\_\_\_ bits in transit at any time.

Answer ( Please select your correct option )

T + D

WWW.VirtualAcademyLive.com

T x D/Unit Time

T / D

T x D

Made by: Waqar Siddhu

Start Time: 8:48 PM

10

\_\_\_\_\_ is used for audio and video, since these have pre-defined maximum data rates

Answer ( Please select your correct option )

Constant Bit Rate (CBR) service

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Variable Bit Rate (VBR) service

Available Bit Rate (ABR) service

Uniform Bit Rate (UBR) service

**Made by: Waqar Siddhu**

Start Time: 8:48 PM

21

----- Program sends a message to a remote computer and reports whether the computer responds.

Answer ( Please select your correct option )

Telnet

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Ping

Traceroute

ICMP

**Made by: Waqar Siddhu**

Start Time: 8:48 PM

22

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

Answer ( Please select your correct option )

Destination Port

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Source port

Logical address

Physical Address

**Made by: Waqar Siddhu**

Start Time: 8:48 PM

23

The process of using a routing table to select a next hop for a given datagram is called \_\_\_\_\_

Answer ( Please select your correct option )

Encapsulation

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Reassembling

Routing or forwarding

Fragmentation

Made by: Waqar Siddhu

Start Time: 8:48 PM

\_\_\_\_\_ measures distance in network hops, where each network between the source and destination counts as single hop.

Answer ( Please select your correct option )

BGP

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

OSPF

RIP

EGP

Made by: Waqar Siddhu

Start Time: 8:48 PM

\_\_\_\_\_ uses distance vector approach to define routing

Answer ( Please select your correct option )

BGP

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

OSPF

RIP

EGP

Made by: Waqar Siddhu

Start Time: 8:48 PM

\_\_\_\_\_ includes a 32-bits address mask with each address, which allows the address to be classful, classless, or subnetted.

Answer ( Please select your correct option )

IGP

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

RIP

OSPF

BGP

Made by: Waqar Siddhu

Start Time: 8:48 PM

27

\_\_\_\_\_ 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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Configuration-and -Tunneling

Core-Based Discovery

Forwarding

Made by: Waqar Siddhu

Start Time: 8:48 PM

28

TCP/IP defines the term \_\_\_\_\_ to refer any computer system that connects to an internet and runs applications.

Answer ( Please select your correct option )

Router

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Host computer

Bridge

Hub

Made by: Waqar Siddhu

Start Time: 8:48 PM

29

An Internet Address (IP 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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

32-bit

24-bit

12-bit

Made by: Waqar Siddhu

Start Time: 8:48 PM

20

Whenever IP software handles a packet, it needs to separate the destination address into a \_\_\_\_\_ and \_\_\_\_\_.

Answer ( Please select your correct option )

suffix, prefix

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

postfix, Infix

Infix, prefix

prefix, suffix

Made by: Waqar Siddhu

Start Time: 8:48 PM

21

Mapping between a protocol address and a hardware address is called \_\_\_\_\_.

Answer ( Please select your correct option )

ICMP

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Address Resolution

Message Exchange

Hashing

Made by: Waqar Siddhu

Start Time: 8:48 PM

22

A datagram cannot be larger than \_\_\_\_\_ of a network over which it is sent.

Answer ( Please select your correct option )

IP header

WWW.VirtualAcademyLive.com

MTU

Size

Frame header

Made by: Waqar Siddhu

Start Time: 8:48 PM

22

\_\_\_\_\_ field of header indicates whether a datagram is a fragment or a complete datagram.

Answer ( Please select your correct option )

FLAGS

WWW.VirtualAcademyLive.com

SERVICE TYPE

IDENTIFICATION

FRAGMENT OFFSET

Made by: Waqar Siddhu

Start Time: 8:48 PM

23

\_\_\_\_\_ field tells the receiver how to order fragments within a given datagram.

Answer ( Please select your correct option )

FRAGMENT OFFSET

WWW.VirtualAcademyLive.com

IDENTIFICATION

HEADER CHECKSUM

FLAGS

Made by: Waqar Siddhu

Start Time: 8:48 PM

24

NEXT HEADER field in the base header defines type of header and it appears at end of \_\_\_\_\_ base header.

Answer ( Please select your correct option )

Static

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Variable size

dynamic

fixed-size

Made by: Waqar Siddhu

Start Time: 8:48 PM

28

\_\_\_\_\_ (Windows version) sends ICMP echo messages with increasing TTL.

Answer ( Please select your correct option )

Ping

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Tracert

cmd

routers

Made by: Waqar Siddhu

Start Time: 8:48 PM

27

Connectionless service, Message-Oriented protocol, best effort delivery service, arbitrary interaction and operating system independent are the characteristics of \_\_\_\_\_

Answer ( Please select your correct option )

TCP

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

UDP

IP

ICMP

Made by: Waqar Siddhu

Start Time: 8:48 PM

29

\_\_\_\_\_ provide computer-to-computer communication also called machine-to- machine communication.

Answer ( Please select your correct option )

IP

WWW.VirtualAcademyLive.com

Transport Protocols

RIP

UDP

Made by: Waqar Siddhu

Start Time: 8:48 PM

20

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

Answer ( Please select your correct option )

IP, TCP

WWW.VirtualAcademyLive.com

TCP, IP

TCP, UDP

UDP, TCP

Made by: Waqar Siddhu

Start Time: 8:48 PM

40

Is bridge an intelligent device? If yes then how.

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

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Start Time: 8:48 PM

41

What are the services provided by TCP?

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

WWW.VirtualAcademyLive.com

Normal Arial 12 B / I / U

Made by: Waqar Siddhu

Start Time: 6:48 PM

42

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](#) )

WWW.VirtualAcademyLive.com

Normal Arial 12 B / I / U

Made by: Waqar Siddhu

Start Time: 6:48 PM

43

What is the concept of Zero-compression regarding IPv6?

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

WWW.VirtualAcademyLive.com

Normal Arial 12 B / I / U

Made by: Waqar Siddhu

Start Time: 6:48 PM

44

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](#) )

WWW.VirtualAcademyLive.com



A screenshot of a rich text editor interface. The toolbar includes icons for bold, italic, underline, text color, background color, bulleted list, numbered list, link, unlink, and a 100% zoom level. The text area is empty. A watermark 'WWW.VirtualAcademyLive.com' is visible at the top right. The status bar at the bottom shows 'Start Time: 6:48 PM' and a page number '45'.

Made by: Waqar Siddhu

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](#) )

WWW.VirtualAcademyLive.com



A screenshot of a rich text editor interface, identical in layout to the first one. The toolbar and status bar are visible. A watermark 'WWW.VirtualAcademyLive.com' is present. The status bar shows 'Start Time: 6:48 PM' and a page number '46'.

Made by: Waqar Siddhu

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

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

WWW.VirtualAcademyLive.com



A screenshot of a rich text editor interface, identical in layout to the previous ones. The toolbar and status bar are visible. A watermark 'WWW.VirtualAcademyLive.com' is present. The status bar shows 'Start Time: 6:48 PM' and a page number '47'.

Made by: Waqar Siddhu

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

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

WWW.VirtualAcademyLive.com

Normal Arial 12 B / I / U

Made by: Waqar Siddhu

Start Time: 6:48 PM

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](#) )

WWW.VirtualAcademyLive.com

Normal Arial 12 B / I / U

Made by: Waqar Siddhu

Start Time: 6:48 PM

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](#) )

WWW.VirtualAcademyLive.com

Normal Arial 12 B / I / U

Made by: Waqar Siddhu

Start Time: 6:48 PM

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

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

WWW.VirtualAcademyLive.com

Normal Arial 12 B / U

Made by: Waqar Siddhu

Start Time: 6:48 PM

51

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

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

WWW.VirtualAcademyLive.com

Normal Arial 12 B / U

Made by: Waqar Siddhu

Start Time: 6:48 PM

52



Virtual University  
About Us

CS610  
Solved Final Term Paper 2

[Waqar.siddhu@gmail.com](mailto:Waqar.siddhu@gmail.com)

Year  
2017

For More Plz Visit

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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 : 5 of 52 Marks: 1 (Budgeted Time 1 Min)

Base header is fixed size i.e. \_\_\_ octets.

Answer ( Please select your correct option ) [WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

32

64

40

16

**Made by: Waqar Siddhu**

---

Question No : 24 of 52 Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ computes shortest paths in a graph by using weights on edges as a measure of distance.

Answer ( Please select your correct option ) [WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Greedy Algorithm

Distance vector Algorithm

Dijkstra's algorithm

Binary Search Algorithm

**Made by: Waqar Siddhu**

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

IP datagram format is same as a hardware frame format. Can network engineer change the size of header in IP datagram? What is the size of IP datagram header?

Answer ( Please click here to Add Answer )

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

Made by: Waqar Siddhu

Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

An interface for twisted pair Ethernet must have an \_\_\_\_\_ connector , and must generate signals according to the \_\_\_\_\_ specification.

WWW.VirtualAcademyLive.com

Answer ( Please select your correct option )

VuAnswers.com

RJ-45, 10 Base T

C

RJ-45, 10 Base 5

C

BNC, 10 Base 2

C

BNC, 10 Base T

C

Made by: Waqar Siddhu

Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

A bridges function in the \_\_\_\_\_ layers(s).

WWW.VirtualAcademyLive.com

Answer ( Please select your correct option )

VuAnswers.com

Physical (MAC)

C

Data link

C

Network

C

Physical (MAC) and Data link

C

Made by: Waqar Siddhu

Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

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

WWW.VirtualAcademyLive.com

VuAnswers.com

Answer ( Please select your correct option )

Physical Layer

Network Interface Layer

Internet Layer

Transport Layer

Made by: Waqar Siddhu

Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

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

WWW.VirtualAcademyLive.com

VuAnswers.com

Answer ( Please select your correct option )

Class A

Class B

Class C

Class D

Made by: Waqar Siddhu

Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

Base header is fixed size i.e. \_\_\_ octets.

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

[VuAnswers.com](http://VuAnswers.com)

Answer ( Please select your correct option )

32

64

40

16

**Made by: Waqar Siddhu**

Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

[VuAnswers.com](http://VuAnswers.com)

Answer ( Please select your correct option )

3

2

1

0

**Made by: Waqar Siddhu**

Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

In the \_\_\_\_\_ large organizations began to acquire multiple networks. Each network in the organization formed island. Employees needed to choose a computer appropriate for each task. So they needed multiple screens, keyboards and computers.

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Answer ( Please select your correct option )

[VuAnswers.com](http://VuAnswers.com)

1990s

1970s

1960s

1950s

Made by: Waqar Siddhu

Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

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

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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Answer ( Please select your correct option )

[VuAnswers.com](http://VuAnswers.com)

T,C

D

C

T,D

Made by: Waqar Siddhu

Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

In which method of Address Resolution Protocol the hardware address must be smaller than protocol address?

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

WWW.VirtualAcademyLive.com

Answer ( Please select your correct option )

VuAnswers.com

D

C

T,D

C,D

Made by: Waqar Siddhu

Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

The computation to examine the  $i^{\text{th}}$  entry in the table can be expressed as:

WWW.VirtualAcademyLive.com

Answer ( Please select your correct option )

VuAnswers.com

if  $((\text{Mask}[i] \& D) \neq \text{Dest}[i])$  forward to NextHop[i]

if  $((\text{Mask}[i] \& D) == \text{Dest}[i])$  forward to NextHop[i]

if  $((\text{Mask}[i] \& D) >= \text{Dest}[i])$  forward to NextHop[i]

if  $((\text{Mask}[i] \& D) <= \text{Dest}[i])$  forward to NextHop[i]

Made by: Waqar Siddhu

Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

The IP multicast abstraction allows an application running on an arbitrary computer to leave a multicast group at any time. While \_\_\_\_\_ application on a computer remain a member of a group.

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Answer ( Please select your correct option )

[VuAnswers.com](http://VuAnswers.com)

one or more

C

only one

C

no

C

many

C

**Made by: Waqar Siddhu**

Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Answer ( Please select your correct option )

[VuAnswers.com](http://VuAnswers.com)

Network

C

Datalink

C

Transport

C

Application

C

**Made by: Waqar Siddhu**

Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

In case of TCP retransmission, acknowledgement from a computer on a local area network are expected to arrive within few, \_\_\_\_\_.

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

[VuAnswers.com](http://VuAnswers.com)

Answer ( Please select your correct option )

seconds

microseconds

milliseconds

nanoseconds

**Made by: Waqar Siddhu**

Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

Part of the 3-way handshake used to create a connection, requires each end to generate a random \_\_\_\_\_ sequence number.

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

[VuAnswers.com](http://VuAnswers.com)

Answer ( Please select your correct option )

8-bit

64-bit

32-bit

16-bit

**Made by: Waqar Siddhu**

Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following protocol uses UDP for all message transmission?

WWW.VirtualAcademyLive.com

VuAnswers.com

Answer ( Please select your correct option )

RIP

OSPF

BGP

RIP and OSPF

Made by: Waqar Siddhu

Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

One of the design goals for unicast route propagation is \_\_\_\_\_.

WWW.VirtualAcademyLive.com

VuAnswers.com

Answer ( Please select your correct option )

consistency

inconsistency

stability

dynamic addressing

Made by: Waqar Siddhu

Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

Find the class of the address:  
11110011 10011011 11111011 00001111

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Answer ( Please select your correct option )

[VuAnswers.com](http://VuAnswers.com)

A

C

E

B

**Made by: Waqar Siddhu**

Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

In broadcast topology there are two categories \_\_\_\_\_.

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Answer ( Please select your correct option )

[VuAnswers.com](http://VuAnswers.com)

Satellite/Radio and Ring

Satellite/Radio and Star

Ring and star

Satellite/Radio

**Made by: Waqar Siddhu**

Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

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

WWW.VirtualAcademyLive.com

VuAnswers.com

Answer ( Please select your correct option )

CRC

Parity

Parity

Checksums

VRC

Made by: Waqar Siddhu

Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

A network uses a ----- if all computers attach to a central point.

WWW.VirtualAcademyLive.com

VuAnswers.com

Answer ( Please select your correct option )

Star Topology

Star Topology

Ring Topology

Bus Topology

Mesh Topology

Made by: Waqar Siddhu

Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

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

WWW.VirtualAcademyLive.com

VuAnswers.com

Answer ( Please select your correct option )

Static addressing scheme

Configurable addressing scheme

Dynamic addressing scheme

Masking

Made by: Waqar Siddhu

Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

IEEE LLC/SNAP header is -----, which is used to specify the type of data.

WWW.VirtualAcademyLive.com

VuAnswers.com

Answer ( Please select your correct option )

8 octets

8 bytes

8 bits

16 bits

Made by: Waqar Siddhu

Question No : 23 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.

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Answer ( Please select your correct option )

[VuAnswers.com](http://VuAnswers.com)

Area

Volume

Length

Size

**Made by: Waqar Siddhu**

Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

----- has no way to determine the cause of the problem.

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Answer ( Please select your correct option )

[VuAnswers.com](http://VuAnswers.com)

ICMP

ARP

Ping

Trace route

**Made by: Waqar Siddhu**

Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

The routers within an autonomous system use a \_\_\_\_\_ to exchange routing information.

WWW.VirtualAcademyLive.com

VuAnswers.com

Answer ( Please select your correct option )

Interior Gateway protocols(IGPs)

Exterior Gateway protocol (EGPs)

Both Interior Gateway protocols(IGPs) and Exterior Gateway protocol (EGPs)

Border Gateway Protocol (BGP)

None of the given

Made by: Waqar Siddhu

Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ measures distance in network hops, where each network between the source and destination counts as single hop.

WWW.VirtualAcademyLive.com

VuAnswers.com

Answer ( Please select your correct option )

BGP

OSPF

RIP

EGP

Made by: Waqar Siddhu

Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

A standard protocol exists that allows a host to inform a nearby router whenever the host needs to join or leave a particular multicast group is known as \_\_\_\_\_.

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Answer ( Please select your correct option )

[VuAnswers.com](http://VuAnswers.com)

IGMP

OSPF

BGP

UDP

Made by: Waqar Siddhu

Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ includes a 32-bits address mask with each address, which allows the address to be classful, classless, or subnetted.

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Answer ( Please select your correct option )

[VuAnswers.com](http://VuAnswers.com)

IGP

RIP

OSPF

BGP

Made by: Waqar Siddhu



Virtual University

About Us

CS610  
Solved Final Term Paper 3

[Waqar.siddhu@gmail.com](mailto:Waqar.siddhu@gmail.com)

Year  
2017

For More Plz Visit

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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 assigns each VC a \_\_\_\_\_ identifier that is divided two parts to produce a hierarchy.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

21-bit

22-bit

23-bit

24-bit

Made by: Waqar Siddhu

Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

A network that uses a ----- usually consist of a single long cable to which computers attach.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Star Topology

Ring Topology

Bus Topology

Tree Topology

Made by: Waqar Siddhu

Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

The Fast Ethernet hardware operates at a rate of -----

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

10 Mbps

100 Mbps

1000 Mbps

1 Gbps

**Made by: Waqar Siddhu**

Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

A network uses a ----- if all computers attach to a central point

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Star Topology

Ring Topology

Bus Topology

Mesh Topology

**Made by: Waqar Siddhu**

Question No : 5 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Burned MAC

Static addressing scheme

Configurable addressing scheme

Dynamic addressing scheme

**Made by: Waqar Siddhu**

Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

Basic LAN technologies such as Ethernet, Token Ring, and FDDI use a \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- Connectionless service paradigm
- Connection-oriented service paradigm
- Both Connectionless and Connection-oriented service paradigm
- Connection-oriented service paradigm without acknowledgment

**Made by: Waqar Siddhu**

Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is exterior routing protocol?

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- RIP and OSPF
- RIP
- OSPF
- BGP

**Made by: Waqar Siddhu**

Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ uses distance vector approach to define routing

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- BGP
- OSPF
- RIP
- EGP

**Made by: Waqar Siddhu**

Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is ideal in a situation where the group is small and all members are attached to contiguous Local Area Networks.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Flood-and -Prune



Configuration-and -Tunneling

Core-Based Discovery

Forwarding

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Flood-and -Prune

Configuration-and -Tunneling



Core-Based Discovery

Forwarding

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

IP, TCP

TCP, IP



TCP, UDP

UDP, TCP

**Made by: Waqar Siddhu**

Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

In which type of topology computers are connected to a central device?

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Ring

Mesh

Bus

Star

**Made by: Waqar Siddhu**

Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Square root, Cube root

Double, Triple

Triple, Quad

Double, Quad

**Made by: Waqar Siddhu**

Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

Due to advancement in IT world as the Internet grew, the original \_\_\_\_\_ scheme became a limitation.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Subnet addressing

Classful addressing

Address mask

Classless addressing

**Made by: Waqar Siddhu**

Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

Inside a computer, each classful address mask is stored as a \_\_\_\_\_ value.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

16-bit

48-bit

32-bit

8-bit

**Made by: Waqar Siddhu**

Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

For loopback testing prefix value will be \_\_\_\_\_ in address.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

127

128

131

192

**Made by: Waqar Siddhu**

Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

In which method of Address Resolution Protocol the implementation is more difficult?

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

T, C

T

C

D

**Made by: Waqar Siddhu**

Question No : 18 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

IP

Transport Protocol

RIP

ARP

**Made by: Waqar Siddhu**

Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ provides computer-to-computer communication also, called machine-to-machine communication.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

UDP

Transport Protocols

RIP

IP

**Made by: Waqar Siddhu**

Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ does not need to pre-establish communication and also there is no need to terminate communication.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

ICMP

UDP

TCP

IP

**Made by: Waqar Siddhu**

Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

A popular use of \_\_\_\_\_ is TCP Splicing

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

NAT

NAPT

Twice NAT

CAT

**Made by: Waqar Siddhu**

Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following are interior routing protocols ?

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

RIP and BGP

OSPF and BGP

BGP and OSPF

RIP and OSPF

**Made by: Waqar Siddhu**

Question No : 23 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Distance Vector Multicast Routing Protocol

Core Based Trees

Protocol Independent Multicast \_ Sparse Mode

Protocol Independent Multicast \_ Dense Mode

**Made by: Waqar Siddhu**

Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

Which method of Address Resolution Protocol is useful with any hardware?

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

T

C

D

C, D

**Made by: Waqar Siddhu**

Question No : 25 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

T

C

D

T, C

**Made by: Waqar Siddhu**

Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

Local Talk is a LAN technology that employs \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Bus topology

Ring topology

Mesh topology

Star topology

**Made by: Waqar Siddhu**

Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

Formally named \_\_\_\_\_ informally known as the twisted pair Ethernet or TP Ethernet.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

10 Base 2

10 Base 5

10 Base T

100 Base T

**Made by: Waqar Siddhu**

Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Class A

Class B

Class C

Class D

**Made by: Waqar Siddhu**

Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

Find the class of the address:

11110011.10011011.11111011.00001111

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

A

C

E

B

**Made by: Waqar Siddhu**

Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

Virtual packets serve same purpose on \_\_\_\_\_ as frames on \_\_\_\_\_

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Intranet, LAN

Internet, WAN

Intranet, WAN

Internet, LAN

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Suffix

Frame

Prefix

Packet

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

1990s

1970s

1960s

1950s

**Made by: Waqar Siddhu**

Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

A \_\_\_\_\_ is a special-purpose device dedicated to the task of interconnecting networks.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Router

Hub

Switch

Repeater

**Made by: Waqar Siddhu**

Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

Base header of IPv6 is fixed size and consists of \_\_\_\_\_ octets.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

32

64

40

16

**Made by: Waqar Siddhu**

Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

NEXT HEADER field in the base header defines type of header and it appears at the end of \_\_\_\_\_ base header.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Fixed-size

Static

Variable size

Dynamic

**Made by: Waqar Siddhu**

Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Physical

Data link

Network

Transport

**Made by: Waqar Siddhu**

Question No : 37 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

UDP

TCP

ICMP

IP

**Made by: Waqar Siddhu**

Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Distance vector routing

Link state routing

Path vector routing

Distance vector routing and Link state routing

**Made by: Waqar Siddhu**

Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ includes 32-bits address mask with each address to make the address class full, classless or sub netted.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

RIP

OSPF

BGP

IGP

**Made by: Waqar Siddhu**

Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

In TCP when a computer sends a segment, the \_\_\_\_\_ and \_\_\_\_\_ fields refer to incoming data.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Acknowledgement number, Window

Sequence number, Window

Acknowledgement number, Sequence number

Source address, Sequence number

**Made by: Waqar Siddhu**

Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

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

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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

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

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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

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

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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

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

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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**



Virtual University

About Us

CS610  
Solved Final Term Paper 4

[Waqar.siddhu@gmail.com](mailto:Waqar.siddhu@gmail.com)

Year  
2017

For More Plz Visit

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

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

Made by: Waqar Siddhu

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- Physical Layer
- Network Interface Layer
- Internet Layer
- Transport Layer

Made by: Waqar Siddhu

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

CRC

Parity

Checksums

VRC

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Static addressing scheme

Configurable addressing scheme

Dynamic addressing scheme

Burned MAC

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Static addressing scheme

Configurable addressing scheme

Dynamic addressing scheme

Masking

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Logical address  
 Source port  
 Logical address

Source port

Destination Port

Physical Address

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Destination Port

Source port

Logical address

Physical Address

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

TCP

Both UDP and TCP

TCP/IP

UDP

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

RIP

OSPF

BGP

RIP and OSPF

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Forwarding

Flood-and -Prune

Configuration-and -Tunneling

Core-Based Discovery

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

IP, TCP

TCP, IP

TCP, UDP

UDP, TCP

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

8

10

16

32

doubt

Made by: Waqar Siddhu

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Repeater

Bridge

Hub

Transceiver

Made by: Waqar Siddhu

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Square root, Cube root

Double, Triple

Triple, Quad

Double, Quad

Made by: Waqar Siddhu

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Larger, smaller

Smaller, larger

Larger, larger

Smaller, smaller

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Cluster

Unicast

Multicast

Anycast

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

IP

Transport Protocol

RIP

ARP

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

RIP and BGP

OSPF and BGP

BGP and OSPF

RIP and OSPF

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Distance Vector Multicast Routing Protocol

Core Based Trees

Protocol Independent Multicast \_ Sparse Mode

Protocol Independent Multicast \_ Dense Mode

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Protocol Independent Multicast \_ Sparse Mode

Protocol Independent Multicast \_ Dense Mode

Distance Vector Multicast Routing Protocol

Core Based Trees

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Table look-up

Direct indexing

Closed-form computation

Message Exchange

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

T

C

D

T, C

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

T, C

D

C

T, D

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

ICMP

ARP

Ping

Traceroute

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

CSMA/CD

CSMA/CA

Token Passing

Aloha

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Area

Volume

Length

Size

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Class A

Class B

Class C

Class D

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

48-bit

32-bit

24-bit

12-bit

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

C

D

A

E

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

A

B

E

C

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Suffix

Frame

Prefix

Packet

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

1990s

1970s

1960s

1950s

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Router

Host Computer

Bridge

Hub

**Made by: Waqar Siddhu**

Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

IP New Generation

IP N<sup>th</sup> Generation

IP Next Generation

IP Net Generation

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

3

2

1

0

**Made by: Waqar Siddhu**

Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Physical

Data link

Network

Transport

**Made by: Waqar Siddhu**

Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Network

Data link

Transport

Application

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

UDP

TCP

ICMP

IP

**Made by: Waqar Siddhu**

Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

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

**Made by: Waqar Siddhu**

Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

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

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Rich text editor toolbar with options like Bold, Italic, Underline, and text color.

**Made by: Waqar Siddhu**

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 )

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

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 )

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

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 )

WWW.VirtualAcademyLive.com

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)



**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)



**Made by: Waqar Siddhu**



Virtual University

About Us

CS610  
Solved Final Term Paper 5

[Waqar.siddhu@gmail.com](mailto:Waqar.siddhu@gmail.com)

Year  
2017

For More Plz Visit

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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)

The Gigabit Ethernet hardware operates at a rate of -----

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

10 Mbps

100 Mbps

1000 Mbps

10 Gbps

Made by: Waqar Siddhu

Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

Formally named \_\_\_\_\_ informally known as the thick wire Ethernet or Thick net.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

10 Base 2

10 Base 5

10 Base T

100 Base T

Made by: Waqar Siddhu

Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Destination Port

Source port

Logical address

Physical Address

**Made by: Waqar Siddhu**

Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ uses distance vector approach to define routing

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

BGP

OSPF

RIP

EGP

**Made by: Waqar Siddhu**

Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is ideal in a situation where the group is small and all members are attached to contiguous Local Area Networks.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Flood-and -Prune

Configuration-and -Tunneling

Core-Based Discovery

Forwarding

**Made by: Waqar Siddhu**

Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

By size there are.....classifications of networks.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

2



correct

3

4

5

**Made by: Waqar Siddhu**

Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

Inside a computer, each classful address mask is stored as a \_\_\_\_\_ value.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

16-bit

48-bit

32-bit

8-bit

**Made by: Waqar Siddhu**

Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

Connectionless service and arbitrary interaction are the characteristics of \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

TCP

UDP

IP

ICMP

**Made by: Waqar Siddhu**

Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ provides computer-to-computer communication also, called machine-to-machine communication.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

UDP

Transport Protocols

RIP

IP

**Made by: Waqar Siddhu**

Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ does not need to pre-establish communication and also there is no need to terminate communication.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

ICMP

UDP

TCP

IP

**Made by: Waqar Siddhu**

Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

The time for arrival of acknowledgement packet depends upon \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Distance to destination and current traffic conditions

Current traffic conditions

Distance to destination

Nature of the data

**Made by: Waqar Siddhu**

Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

Unlike Frame Relay and ATM, SMDS (Switched multi-megabit Data service) offers \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- Connectionless service paradigm
- Connection oriented service paradigm
- Both Connectionless and Connection-oriented service paradigm
- Stateless Connection oriented service paradigm

**Made by: Waqar Siddhu**

Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

Typical internet routing uses a combination of two metrics \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- Administrative cost and routing metrics
- Routing metrics and hop count
- Administrative count and hop cost
- Administrative cost and hop count

**Made by: Waqar Siddhu**

Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

The routers within an autonomous system use a \_\_\_\_\_ to exchange routing information.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- Exterior Gateway protocol (EGPs)
- Both Interior Gateway protocols (IGPs) and Exterior Gateway protocol (EGPs)
- Border Gateway Protocol (BGP)
- Interior Gateway protocols (IGPs)

**Made by: Waqar Siddhu**

Question No : 15 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Protocol Independent Multicast \_ Sparse Mode

Protocol Independent Multicast \_ Dense Mode

Distance Vector Multicast Routing Protocol

Core Based Trees

**Made by: Waqar Siddhu**

Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

Mapping between a protocol address and a hardware address is called \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

ICMP

Address Resolution

Message Exchange

Hashing

**Made by: Waqar Siddhu**

Question No : 17 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Closed-form computation

Message Exchange

Table look-up

Direct indexing

**Made by: Waqar Siddhu**

Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

In which method of Address Resolution Protocol the hardware address must be smaller than protocol address?

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

D

C



correct

T, D

C, D

Made by: Waqar Siddhu

Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

Which method of Address Resolution Protocol adds traffic to a network?

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

C

T

D



correct

D, C

Made by: Waqar Siddhu

Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ computes shortest paths in a graph by using weights on edges as a measure of distance.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Greedy Algorithm

Distance vector Algorithm

Dijkstra's algorithm

Binary Search Algorithm

Made by: Waqar Siddhu

Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

A network with throughput T and delay D would have a total no of \_\_\_\_\_ bits in transit at any time.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

T + D

T x D/Unit Time

T / D

T x D

**Made by: Waqar Siddhu**

Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

Computers attached to an ethernet use \_\_\_\_\_ in which a computer waits for the Ether to be idle before transmitting a frame.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

CSMA/CD

CSMA/CA

Token Passing

Round Robin

**Made by: Waqar Siddhu**

Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

FDDI can transmits data at a rate of \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

100 million bits per second

10 million bits per second

1000 million bits per second

3 million bits per second

**Made by: Waqar Siddhu**

Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

The next hop to which a packet is sent depends only on \_\_\_\_\_

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Packet's destination

correct

Packet's original source

Path the packet has taken

Routed Protocol

Made by: Waqar Siddhu

Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

A system with redundant bridges might have a problem with \_\_\_\_\_ in the system.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Loop

Filters

Spanning Trees

Addressing

Made by: Waqar Siddhu

Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Class A

Class B

Class C

Class D

Made by: Waqar Siddhu

Question No : 27 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

48-bit

32-bit

24-bit

12-bit

**Made by: Waqar Siddhu**

Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

The address \_\_\_\_\_ identifies the physical network to which the computer is attached, while the \_\_\_\_\_ identifies an individual computer on that network.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Prefix , prefix

Suffix , prefix

Suffix, suffix

Prefix, suffix

**Made by: Waqar Siddhu**

Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ field of header indicates whether a datagram is a fragment or a complete datagram.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Flag

Service type

Identification

Fragment offset

**Made by: Waqar Siddhu**

Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Suffix

Frame

Prefix

Packet

**Made by: Waqar Siddhu**

Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ of TCP/IP layering model is closest to network hardware.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Physical Layer

correct

Network Interface Layer

Data link Layer

Transport Layer

**Made by: Waqar Siddhu**

Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

IPV6 addresses are of \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

128 bytes

32 bits

128 bits

correct

64 bits

**Made by: Waqar Siddhu**

Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

IPv6 stands for \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

IP New Generation

IP N<sup>th</sup> Generation

IP Next Generation

IP Net Generation

**Made by: Waqar Siddhu**

Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

NEXT HEADER field in the base header defines type of header and it appears at the end of \_\_\_\_\_ base header.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Fixed-size

Static

Variable size

Dynamic

**Made by: Waqar Siddhu**

Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Physical

Data link

Network

Transport

**Made by: Waqar Siddhu**

Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Network

Data link

Transport

Application

**Made by: Waqar Siddhu**

Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

A one-to-many communication between a source and a specific group of hosts is classified as a \_\_\_\_\_ communication.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Unicast

Multicast

Broadcast

Unicast & Multicast

**Made by: Waqar Siddhu**

Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ includes 32-bits address mask with each address to make the address class full, classless or sub netted.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

RIP

OSPF

BGP

IGP

**Made by: Waqar Siddhu**

Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

The process of using a routing table to select a next hop for a given datagram is called \_\_\_\_\_

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- Routing or forwarding
- Fragmentation
- Switching
- Reassembling

**Made by: Waqar Siddhu**

Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following protocols use(s) UDP for the transmission of all type of message?

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- RIP
- OSPF
- BGP
- RIP and OSPF

**Made by: Waqar Siddhu**

Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Rich text editor toolbar with options like Bold, Italic, Underline, and text color.

**Made by: Waqar Siddhu**

Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

Made by: Waqar Siddhu

Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

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

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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

Made by: Waqar Siddhu

Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

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

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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

Made by: Waqar Siddhu

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

Made by: Waqar Siddhu

Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

Made by: Waqar Siddhu

Question No : 47 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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

Made by: Waqar Siddhu

Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

Made by: Waqar Siddhu

Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

Made by: Waqar Siddhu

Question No : 50 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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

Made by: Waqar Siddhu

Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

**Made by: Waqar Siddhu**

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

**Made by: Waqar Siddhu**



Virtual University  
About Us

CS610  
Solved Final Term Paper 6

[Waqar.siddhu@gmail.com](mailto:Waqar.siddhu@gmail.com)

Year  
2017

For More Plz Visit

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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 assigns each VC a \_\_\_\_\_ identifier that is divided two parts to produce a hierarchy.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

21-bit

22-bit

23-bit

24-bit

**Made by: Waqar Siddhu**

Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is the scheme, which is designed to help in detecting transmission errors, sends one extra bit of information with each character.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Parity checking

Checksums

CRC

LRC

**Made by: Waqar Siddhu**

Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

A network that uses a ----- usually consist of a single long cable to which computers attach.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Star Topology

Ring Topology

Bus Topology

Tree Topology

**Made by: Waqar Siddhu**

Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

Formally named \_\_\_\_\_ informally known as the thin wire Ethernet or Thin net.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

10 Base 2

10 Base 5

10 Base T

100 Base T

**Made by: Waqar Siddhu**

Question No : 5 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Logical address  
Source port  
Logical address

Source port

Destination Port

**correct**

Physical Address

**Made by: Waqar Siddhu**

Question No : 6 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

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

**Made by: Waqar Siddhu**

Question No : 7 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

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

**Made by: Waqar Siddhu**

Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- 8
- 10
- 16
- 32

**Made by: Waqar Siddhu**

Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

Header of cell takes \_\_\_\_\_ of network capacity.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- 5%
- 10%
- 12%
- 15%

**Made by: Waqar Siddhu**

Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

Due to advancement in IT world as the Internet grew, the original \_\_\_\_\_ scheme became a limitation.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- Subnet addressing
- Classful addressing
- Address mask
- Classless addressing

**Made by: Waqar Siddhu**

Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is used for compressed audio and video where the data rate is related to level of compression.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- Constant Bit Rate (CBR) service
- Variable Bit Rate (VBR) service
- Available Bit Rate (ABR) service
- Uniform Bit Rate (UBR) service

**Made by: Waqar Siddhu**

Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is used for ordinary data.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Available Bit Rate (ABR) service

Uniform Bit Rate (UBR) service

Constant Bit Rate (CBR) service

Variable Bit Rate (VBR) service

**Made by: Waqar Siddhu**

Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

The special type of address in IPv6 used for single destination computer is known as \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Anycast

Unicast

Multicast

Broadcast

**Made by: Waqar Siddhu**

Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

Connectionless service and arbitrary interaction are the characteristics of \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

TCP

UDP

IP

ICMP

**Made by: Waqar Siddhu**

Question No : 15 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

IP

Transport Protocol

RIP

ARP

**Made by: Waqar Siddhu**

Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

Three-way handshake is used to create a connection and requires each end to generate a random \_\_\_\_\_ sequence number.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

8-bit

64-bit

32-bit

16-bit

**Made by: Waqar Siddhu**

Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

The time for arrival of acknowledgement packet depends upon \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Distance to destination and current traffic conditions

Current traffic conditions

Distance to destination

Nature of the data

**Made by: Waqar Siddhu**

Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

The routers within an autonomous system use a \_\_\_\_\_ to exchange routing information.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- Exterior Gateway protocol (EGPs)
- Both Interior Gateway protocols (IGPs) and Exterior Gateway protocol (EGPs)
- Border Gateway Protocol (BGP)
- Interior Gateway protocols (IGPs)

**Made by: Waqar Siddhu**

Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following are interior routing protocols ?

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

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

correct

**Made by: Waqar Siddhu**

Question No : 20 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

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

**Made by: Waqar Siddhu**

Question No : 21 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Protocol Independent Multicast \_ Sparse Mode

Protocol Independent Multicast \_ Dense Mode

Distance Vector Multicast Routing Protocol

Core Based Trees

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

T

C

D

T, C

**Made by: Waqar Siddhu**

Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

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

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

T

D

C

T, C

**Made by: Waqar Siddhu**

Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

ARP is almost always used to bind a \_\_\_ bit IP address to a \_\_\_ bit Ethernet address.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- 32, 48
- 48, 32
- 32, 64
- 32, 128

**Made by: Waqar Siddhu**

Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- ICMP
- ARP
- Ping
- Traceroute

**Made by: Waqar Siddhu**

Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

A network which is based on packets uses a computer which may have \_\_\_\_\_, memory and \_\_\_\_\_ for switching.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- Administration Rights, Algorithm
- Source address, Destination address
- Interface, Program **correct**
- Input, Output

**Made by: Waqar Siddhu**

Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Class A

Class B

Class C

Class D

**Made by: Waqar Siddhu**

Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

The address \_\_\_\_\_ identifies the physical network to which the computer is attached, while the \_\_\_\_\_ identifies an individual computer on that network.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Prefix , prefix

Suffix , prefix

Suffix, suffix

Prefix, suffix

**Made by: Waqar Siddhu**

Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

Dotted decimal notation is a syntactic form the IP software uses to express \_\_\_\_\_ bit binary values when interacting with humans.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

16

24

32

64

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

A

B

E

C

**Made by: Waqar Siddhu**

Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

Find the class of the address:

11110011.10011011.11111011.00001111

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

A

C

E

B

**Made by: Waqar Siddhu**

Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

Virtual packets serve same purpose on \_\_\_\_\_ as frames on \_\_\_\_\_

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Intranet, LAN

Internet, WAN

Intranet, WAN

Internet, LAN

**Made by: Waqar Siddhu**

Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

A \_\_\_\_\_ is a special-purpose device dedicated to the task of interconnecting networks.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Router

Hub

Switch

Repeater

**Made by: Waqar Siddhu**

Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

IPv6 addresses are of \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

128 bytes

32 bits

128 bits



correct

64 bits

**Made by: Waqar Siddhu**

Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

NEXT HEADER field in the base header defines type of header and it appears at the end of \_\_\_\_\_ base header.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Fixed-size

Static

Variable size

Dynamic

**Made by: Waqar Siddhu**

Question No : 36 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

UDP

TCP

ICMP

IP

**Made by: Waqar Siddhu**

Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

A one-to-many communication between a source and a specific group of hosts is classified as a \_\_\_\_\_ communication.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Unicast

Multicast

Broadcast

Unicast & Multicast

**Made by: Waqar Siddhu**

Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ includes 32-bits address mask with each address to make the address class full, classless or sub netted.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

RIP

OSPF

BGP

IGP

**Made by: Waqar Siddhu**

Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following protocols use(s) UDP for the transmission of all type of message?

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

RIP

OSPF

BGP

RIP and OSPF

**Made by: Waqar Siddhu**

Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

In TCP when a computer sends a segment, the \_\_\_\_\_ and \_\_\_\_\_ fields refer to incoming data.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Acknowledgement number, Window

Sequence number, Window

Acknowledgement number, Sequence number

Source address, Sequence number

**Made by: Waqar Siddhu**

Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

How can we say that the bridge is an intelligent device? Give two reasons.

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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Rich text editor toolbar with options like Bold, Italic, Underline, and text color.

**Made by: Waqar Siddhu**

Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

Connectionless and connection oriented both protocols have different qualities in communication. UDP belongs to which category?

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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

OSPF protocol is being used to replace the older RIP protocol in the Internet routing process. Discuss, does OSPF only share information within an area or among different areas?

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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

TCP is widely used because TCP connections deliver the data from one end to other end in real. So why TCP connections are called Virtual Connections? Give at least three reasons.

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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)



*Made by: Waqar Siddhu*

Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)



*Made by: Waqar Siddhu*

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)



*Made by: Waqar Siddhu*

Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)



**Made by: Waqar Siddhu**

Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)



**Made by: Waqar Siddhu**



Virtual University

About Us

CS610  
Solved Final Term Paper 7

[Waqar.siddhu@gmail.com](mailto:Waqar.siddhu@gmail.com)

Year  
2017

For More Plz Visit

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Physical Layer

Network Interface Layer

Internet Layer

Transport Layer

Made by: Waqar Siddhu

Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

In broadcast topology there are two categories \_\_\_\_\_

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Satellite/Radio and Ring

Satellite/Radio and Star

Ring and star

Satellite/Radio

Made by: Waqar Siddhu

Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

In -----, network occupies the smaller area like a room a floor or a building

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

LAN

WAN

MAN

PAN

**Made by: Waqar Siddhu**

Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

A----- provides mechanism that automatically assigns a physical address to a station when the station first boots.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Static addressing scheme

Configurable addressing scheme

Dynamic addressing scheme

Dynamic Host Configuration

**Made by: Waqar Siddhu**

Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

----- uses distance vector approach to define routing

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

BGP

OSPF

RIP

EGP

**Made by: Waqar Siddhu**

Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is ideal in a situation where the group is small and all members are attached to contiguous Local Area Networks.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Flood-and -Prune



Configuration-and -Tunneling

Core-Based Discovery

Forwarding

**Made by: Waqar Siddhu**

Question No : 7 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Flood-and -Prune

Configuration-and -Tunneling



Core-Based Discovery

Forwarding

**Made by: Waqar Siddhu**

Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

A datagram cannot be larger than \_\_\_\_\_ of a network over which it is sent.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

IP header

MTU



doubt

Size

Frame header

**Made by: Waqar Siddhu**

Question No : 9 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

IP, TCP

TCP, IP

TCP, UDP

UDP, TCP

**Made by: Waqar Siddhu**

Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

If the sending computer crashes before transmitting a complete frame, the \_\_\_\_\_ will not arrive and the receiver will know that the frame is \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

soh, complete

soh, incomplete

eot, incomplete

eot, complete

**Made by: Waqar Siddhu**

Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

----- was especially most concerned about the lack of highly powered computers.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

ARPA

IEEE

ELA

Government

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

8

10

16

32

**Made by: Waqar Siddhu**

Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

A bridge functions in the \_\_\_\_\_ layer(s).

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Physical

Data link

Network and Data link

Physical and Data link

**Made by: Waqar Siddhu**

Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

If bridge cannot find \_\_\_\_\_ in its tables then forwards frames to the other segment.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

IP address

Destination address

Source address

Port address

**Made by: Waqar Siddhu**

Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

In network address suffix values will be \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Half 1s

All 1s

Half 0s

All 0s

**Made by: Waqar Siddhu**

Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

In which method of Address Resolution Protocol the implementation is more difficult?

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

T, C

T

C

D

**Made by: Waqar Siddhu**

Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

Connectionless service and arbitrary interaction are the characteristics of \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

TCP

UDP

IP

ICMP

**Made by: Waqar Siddhu**

Question No : 18 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

IP

Transport Protocol

RIP

ARP

**Made by: Waqar Siddhu**

Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

We use the term \_\_\_\_\_ refers to measure the path that routing software uses at the time of selecting optimal route.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Routing metrics

Routing path

Routing

Switching

**Made by: Waqar Siddhu**

Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

Typical internet routing uses a combination of two metrics \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Administrative cost and routing metrics

Routing metrics and hop count

Administrative count and hop cost

Administrative cost and hop count

**Made by: Waqar Siddhu**

Question No : 21 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Distance Vector Multicast Routing Protocol

Core Based Trees

Protocol Independent Multicast \_ Sparse Mode

Protocol Independent Multicast \_ Dense Mode

**Made by: Waqar Siddhu**

Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

ATM is designed to work on \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Twisted Pair

Coaxial

Radio Frequency

Fiber

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

T, C

D

C

T, D

**Made by: Waqar Siddhu**

Question No : 24 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

CSMA/CD

CSMA/CA

Token Passing

Aloha

**Made by: Waqar Siddhu**

Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Class A

Class B

Class C

Class D

**Made by: Waqar Siddhu**

Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Class A

Class B

Class C

Class D

**Made by: Waqar Siddhu**

Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ interconnects two independent TCP connections and performs segment rewriting.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Twice NAT

CAT

TCP Splicing

NAT

**Made by: Waqar Siddhu**

Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

Whenever IP software handles a packet, it needs to separate the destination address into a \_\_\_\_\_ and \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Infix, suffix

Postfix, Infix

Infix, prefix

Prefix, suffix

**Made by: Waqar Siddhu**

Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

Virtual packets serve same purpose on \_\_\_\_\_ as frames on \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Intranet, LAN

Internet, WAN

Intranet, WAN

Internet, LAN

**Made by: Waqar Siddhu**

Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ protocols of TCP/IP layering model specify the format of packets sent across internet through one or more routers to a final destination.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Physical Layer

Data link Layer

Internet Layer

Transport Layer

**Made by: Waqar Siddhu**

Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ protocols of TCP/IP layering model specify how to organize data into frames and how a computer transmits frames over a network.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Physical Layer

Network Interface Layer

Data link Layer

Transport Layer

**Made by: Waqar Siddhu**

Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

A \_\_\_\_\_ is a special-purpose device dedicated to the task of interconnecting networks.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Router

Hub

Switch

Repeater

**Made by: Waqar Siddhu**

Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

IPv6 stands for \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

IP New Generation

IP N<sup>th</sup> Generation

IP Next Generation

IP Net Generation

Made by: Waqar Siddhu

Question No : 34 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

1

0

3

2

Made by: Waqar Siddhu

Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

ICMP is used by \_\_\_\_\_ to communicate the network-level information.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Hub

Router

Repeater

Amplifier

Made by: Waqar Siddhu

Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Network

Data link

Transport

Application

**Made by: Waqar Siddhu**

Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ includes 32-bits address mask with each address to make the address class full, classless or sub netted.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

RIP

OSPF

BGP

IGP

**Made by: Waqar Siddhu**

Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

The process of using a routing table to select a next hop for a given datagram is called \_\_\_\_\_

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Routing or forwarding

Fragmentation

Switching

Reassembling

**Made by: Waqar Siddhu**

Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following protocols allow(s) the sender and receiver to enforce policies.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

RIP

OSPF

BGP

RIP and OSPF

**Made by: Waqar Siddhu**

Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

In TCP when a computer sends a segment, the \_\_\_\_\_ and \_\_\_\_\_ fields refer to incoming data.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Acknowledgement number, Window

Sequence number, Window

Acknowledgement number, Sequence number

Source address, Sequence number

**Made by: Waqar Siddhu**

Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

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

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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Rich text editor toolbar with icons for Bold, Italic, Underline, Bulleted List, Numbered List, Indent, Outdent, Undo, Redo, and a 100% zoom level.

**Made by: Waqar Siddhu**

Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

Made by: Waqar Siddhu

Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

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

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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

Made by: Waqar Siddhu

Question No : 44 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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

Made by: Waqar Siddhu

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

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

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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

Made by: Waqar Siddhu

Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

Made by: Waqar Siddhu

Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

Made by: Waqar Siddhu

Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

Made by: Waqar Siddhu

Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

Made by: Waqar Siddhu

Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

Made by: Waqar Siddhu

Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

**Made by: Waqar Siddhu**

Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / U

**Made by: Waqar Siddhu**



Virtual University

About Us

CS610  
Solved Final Term Paper 8

[Waqar.siddhu@gmail.com](mailto:Waqar.siddhu@gmail.com)

Year  
2017

For More Plz Visit

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Physical Layer

Network Interface Layer

Internet Layer

Transport Layer

Made by: Waqar Siddhu

Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following protocols provide the routing information at the autonomous system level?

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

RIP

OSPF

BGP

RIP and OSPF

Made by: Waqar Siddhu

Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

ATM assigns each VC a \_\_\_\_\_ identifier that is divided two parts to produce a hierarchy.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

21-bit

22-bit

23-bit

24-bit

**Made by: Waqar Siddhu**

Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

The Gigabit Ethernet hardware operates at a rate of -----

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

10 Mbps

100 Mbps

1000 Mbps

10 Gbps

**Made by: Waqar Siddhu**

Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

A----- provides mechanism that automatically assigns a physical address to a station when the station first boots.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Static addressing scheme

Configurable addressing scheme

Dynamic addressing scheme

Dynamic Host Configuration

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Logical address  
 Source port  
 Logical address

Source port

Destination Port

Physical Address

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Destination Port

Source port

Logical address

Physical Address

**Made by: Waqar Siddhu**

Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ uses distance vector approach to define routing

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

BGP

OSPF

RIP

EGP

**Made by: Waqar Siddhu**

Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is ideal in a situation where the group is small and all members are attached to contiguous Local Area Networks.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Flood-and -Prune

Configuration-and -Tunneling

Core-Based Discovery

Forwarding

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Flood-and -Prune

Configuration-and -Tunneling

Core-Based Discovery

Forwarding

**Made by: Waqar Siddhu**

Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is not a transmission medium?

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Copper wire

Coaxial cable

Optical fiber

Optical waves

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

8

10

16

doubt

32

Made by: Waqar Siddhu

Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

Mostly preamble and \_\_\_\_\_ is often not shown in Ethernet frame.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Frame type

CRC

Destination address

Source address

Made by: Waqar Siddhu

Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

Virtual Circuit connection identifier occupies \_\_\_\_\_ bits.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

16

24

32

8

Made by: Waqar Siddhu

Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

Header of cell takes \_\_\_\_\_ of network capacity.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

5%

10%

12%

15%

Made by: Waqar Siddhu

Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ has a zero jitter.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Virtual Private Network

Isochronous Network

Asynchronous Network

← not sure

Synchronous Network

Made by: Waqar Siddhu

Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

In network address suffix values will be \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Half 1s

All 1s

Half 0s

All 0s

Made by: Waqar Siddhu

Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

Special type of address in IPv6 used for multiple destinations; possibly not at same site is known as \_\_\_\_\_

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Unicast

Anycast

Multicast

Broadcast

**Made by: Waqar Siddhu**

Question No : 19 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Cluster

Unicast

Multicast

Anycast

**Made by: Waqar Siddhu**

Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

Connectionless service and arbitrary interaction are the characteristics of \_\_\_\_\_

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

TCP

UDP

IP

ICMP

**Made by: Waqar Siddhu**

Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ provides computer-to-computer communication also, called machine-to-machine communication.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

UDP

Transport Protocols

RIP

IP

**Made by: Waqar Siddhu**

Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ does not need to pre-establish communication and also there is no need to terminate communication.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

ICMP

UDP

TCP

IP

**Made by: Waqar Siddhu**

Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

Three-way handshake is used to create a connection and requires each end to generate a random \_\_\_\_\_ sequence number.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

8-bit

64-bit

32-bit

16-bit

**Made by: Waqar Siddhu**

Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

Typical internet routing uses a combination of two metrics \_\_\_\_\_

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Administrative cost and routing metrics

Routing metrics and hop count

Administrative count and hop cost

Administrative cost and hop count

**Made by: Waqar Siddhu**

Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

The routers within an autonomous system use a \_\_\_\_\_ to exchange routing information.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Exterior Gateway protocol (EGPs)

Both Interior Gateway protocols (IGPs) and Exterior Gateway protocol (EGPs)

Border Gateway Protocol (BGP)

Interior Gateway protocols (IGPs)

**Made by: Waqar Siddhu**

Question No : 26 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Distance Vector Multicast Routing Protocol

Core Based Trees

Protocol Independent Multicast \_ Sparse Mode

Protocol Independent Multicast \_ Dense Mode

**Made by: Waqar Siddhu**

Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

A Bridge forwards or filters a frame by comparing the information in its address table to the frame's \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Layer 2 source address

Layer 3 source address

Layer 2 destination address

Layer 3 destination address

Made by: Waqar Siddhu

Question No : 28 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Closed-form computation

Message Exchange

Table look-up

Direct indexing

doubt

Made by: Waqar Siddhu

Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

Which method of Address Resolution Protocol is useful with any hardware?

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

T

C

D

C, D

Made by: Waqar Siddhu

Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

Which method of Address Resolution Protocol adds traffic to a network?

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

C

T

D

D, C

Made by: Waqar Siddhu

Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Class A

Class B

Class C

Class D

Made by: Waqar Siddhu

Question No : 32 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

48-bit

32-bit

24-bit

12-bit

Made by: Waqar Siddhu

Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

Whenever IP software handles a packet, it needs to separate the destination address into a \_\_\_\_\_ and \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Infix, suffix

Postfix, Infix

Infix, prefix

Prefix, suffix

**Made by: Waqar Siddhu**

Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

Virtual packets serve same purpose on \_\_\_\_\_ as frames on \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Intranet, LAN

Internet, WAN

Intranet, WAN

Internet, LAN

**Made by: Waqar Siddhu**

Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

1990s

1970s

1960s

1950s

**Made by: Waqar Siddhu**

Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

A \_\_\_\_\_ is a special-purpose device dedicated to the task of interconnecting networks.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Router

Hub

Switch

Repeater

**Made by: Waqar Siddhu**

Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

Base header of IPv6 is fixed size and consists of \_\_\_\_\_ octets.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

32

64

40

16

**Made by: Waqar Siddhu**

Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

IPv6 addresses are of \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

128 bytes

32 bits

128 bits

64 bits

**Made by: Waqar Siddhu**

Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Network

Data link

Transport

Application

**Made by: Waqar Siddhu**

Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following protocols allow(s) the sender and receiver to enforce policies.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

RIP

OSPF

BGP

RIP and OSPF

**Made by: Waqar Siddhu**

Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

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

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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Rich text editor toolbar with options like Bold, Italic, Underline, Text Color, Background Color, Bulleted List, Numbered List, Indent, Outdent, Undo, Redo, and a 100% zoom level.

**Made by: Waqar Siddhu**

Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / I

*Made by: Waqar Siddhu*

Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / I

*Made by: Waqar Siddhu*

Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

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

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

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / I

*Made by: Waqar Siddhu*

Question No : 45 of 52

Marks: 3 (Budgeted Time 5 Min)

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / I

*Made by: Waqar Siddhu*

Question No : 46 of 52

Marks: 3 (Budgeted Time 5 Min)

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / I

*Made by: Waqar Siddhu*

Question No : 47 of 52

Marks: 3 (Budgeted Time 5 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / I

*Made by: Waqar Siddhu*

Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / I U

**Made by: Waqar Siddhu**

Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / I U

**Made by: Waqar Siddhu**

Question No : 50 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / I U

**Made by: Waqar Siddhu**

Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / I U

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B / I U

**Made by: Waqar Siddhu**



Virtual University

About Us

CS610  
Solved Final Term Paper 10

[Waqar.siddhu@gmail.com](mailto:Waqar.siddhu@gmail.com)

Year  
2017

For More Plz Visit

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

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

Made by: Waqar Siddhu

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- Physical Layer
- Network Interface Layer
- Internet Layer
- Transport Layer

Made by: Waqar Siddhu

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

CRC

Parity

Checksums

VRC

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Burned MAC

Static addressing scheme

Configurable addressing scheme

Dynamic addressing scheme

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Static addressing scheme

Configurable addressing scheme

Dynamic addressing scheme

Masking

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Logical address  
 Source port  
 Logical address

Source port

Destination Port

Physical Address

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Destination Port

Source port

Logical address

Physical Address

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

UDP

Both UDP and TCP

TCP/IP

TCP

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

RIP and OSPF

RIP

OSPF

BGP

Made by: Waqar Siddhu

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Flood-and -Prune

Configuration-and -Tunneling

Core-Based Discovery

Made by: Waqar Siddhu

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

IP, TCP

TCP, IP

TCP, UDP

Made by: Waqar Siddhu

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

IP, TCP

TCP, IP

TCP, UDP

UDP, TCP

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

8

10

16

32

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Bridge

Hub

Transceiver

Repeater

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Square root, Cube root

Double, Triple

Triple, Quad

Double, Quad

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Larger, smaller

Smaller, larger

Larger, larger

Smaller, smaller

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Cluster

Unicast

Multicast

Anycast

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

IP

Transport Protocol

RIP

ARP

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

RIP and BGP

OSPF and BGP

BGP and OSPF

RIP and OSPF

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Distance Vector Multicast Routing Protocol

Core Based Trees

Protocol Independent Multicast \_ Sparse Mode

Protocol Independent Multicast \_ Dense Mode

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

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

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

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

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- T
- C
- D
- T, C

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

T, C

D

C

T, D

Made by: Waqar Siddhu

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

ICMP

ARP

Ping

Traceroute

Made by: Waqar Siddhu

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

CSMA/CD

CSMA/CA

Token Passing

Aloha

Made by: Waqar Siddhu

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Area

Volume

Length

Size

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Class A

Class B

Class C

Class D

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

48-bit

32-bit

24-bit

12-bit

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

A

E

C

D

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

A

B

E

C

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Suffix

Frame

Prefix

Packet

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

1990s

1970s

1960s

1950s

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Router

Host Computer

Bridge

Hub

**Made by: Waqar Siddhu**

Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

IP New Generation

IP N<sup>th</sup> Generation

IP Next Generation

IP Net Generation

**Made by: Waqar Siddhu**

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

1

0

3

2

Made by: Waqar Siddhu

Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Physical

Data link

Network

Transport

Made by: Waqar Siddhu

Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Network

Data link

Transport

Application

Made by: Waqar Siddhu

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

UDP

TCP

ICMP

IP

**Made by: Waqar Siddhu**

Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Distance vector routing

Link state routing

Path vector routing

Distance vector routing and Link state routing

**Made by: Waqar Siddhu**

Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

A collection stub area

A part of an Autonomous System

Composed of at least two Autonomous Systems

A complete Autonomous System

**Made by: Waqar Siddhu**

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](#) )

WWW.VirtualAcademyLive.com

Normal Arial 12 B / I / U

Made by: Waqar Siddhu

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](#) )

WWW.VirtualAcademyLive.com

Normal Arial 12 B / I / U

Made by: Waqar Siddhu

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](#) )

WWW.VirtualAcademyLive.com

Normal Arial 12 B / I / U

Made by: Waqar Siddhu

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](#) )

WWW.VirtualAcademyLive.com

Normal Arial 12 B / I / U

Made by: Waqar Siddhu

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](#) )

WWW.VirtualAcademyLive.com

Normal Arial 12 B / I / U

Made by: Waqar Siddhu

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](#) )

WWW.VirtualAcademyLive.com

Normal Arial 12 B / I / U

Made by: Waqar Siddhu

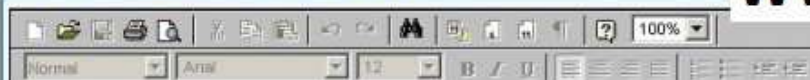
Question No : 47 of 52

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)



*Made by: Waqar Siddhu*

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)



*Made by: Waqar Siddhu*

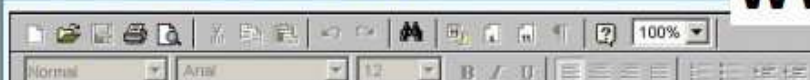
Question No : 49 of 52

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](#) )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)



*Made by: Waqar Siddhu*

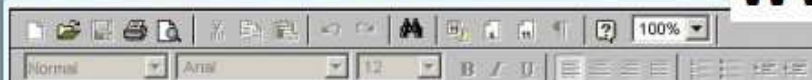
Question No : 50 of 52

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](#) )

WWW.VirtualAcademyLive.com



**Made by: Waqar Siddhu**

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](#) )

WWW.VirtualAcademyLive.com



**Made by: Waqar Siddhu**

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](#) )

WWW.VirtualAcademyLive.com



**Made by: Waqar Siddhu**



Virtual University

About Us

CS610  
Solved Final Term Paper 11

[Waqar.siddhu@gmail.com](mailto:Waqar.siddhu@gmail.com)

Year  
2017

For More Plz Visit

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

CRC

Parity

Checksums

VRC

Made by: Waqar Siddhu

Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

The original Ethernet hardware operated at a rate of -----

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

10 Mbps

1000 Mbps

3 Mbps

100 Mbps

Made by: Waqar Siddhu

Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

A----- provides mechanism that automatically assigns a physical address to a station when the station first boots.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Static addressing scheme

Configurable addressing scheme

Dynamic addressing scheme

Dynamic Host Configuration

Made by: Waqar Siddhu

Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

NICs contain analogue circuitry and \_\_\_\_\_ that allows the NIC to operate independent of the CPU.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

DMA(Direct Memory Access)

Multiplexer

Transceiver

Microprocessor

Made by: Waqar Siddhu

Question No : 5 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Logical address

Source port

Logical address

Source port

Destination Port

Physical Address

Made by: Waqar Siddhu

Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

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

**Made by: Waqar Siddhu**

Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is ideal in a situation where the group is small and all members are attached to contiguous Local Area Networks.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

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

**Made by: Waqar Siddhu**

Question No : 8 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

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

**Made by: Waqar Siddhu**

Question No : 9 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

IP, TCP

TCP, IP

TCP, UDP

UDP, TCP

Made by: Waqar Siddhu

Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Square root, Cube root

Double, Triple

Triple, Quad

Double, Quad

Made by: Waqar Siddhu

Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

Inside a computer, each classful address mask is stored as a \_\_\_\_\_ value.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

16-bit

48-bit

32-bit

8-bit

Made by: Waqar Siddhu

Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

In network address suffix values will be \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Half 1s

All 1s

Half 0s

All 0s

**Made by: Waqar Siddhu**

Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

To \_\_\_\_\_ network traffic, ARP software extracts and saves the information from a response so that it can be used for subsequent packets.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Maintain

Increase

Reduce

Boost

**Made by: Waqar Siddhu**

Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is used for delay sensitive applications requiring high data rate.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Constant Bit Rate (CBR) service

Variable Bit Rate (VBR) service

Available Bit Rate (ABR) service

Uniform Bit Rate (UBR) service

**Made by: Waqar Siddhu**

Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

The special type of address in IPv6 used for single destination computer is known as \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Anycast

Unicast

Multicast

Broadcast

Made by: Waqar Siddhu

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Cluster

Unicast

Multicast

Anycast

Made by: Waqar Siddhu

Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ does not need to pre-establish communication and also there is no need to terminate communication.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

ICMP

UDP

TCP

IP

Made by: Waqar Siddhu

Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

The time for arrival of acknowledgement packet depends upon \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Distance to destination and current traffic conditions ✓

Current traffic conditions

Distance to destination

Nature of the data

**Made by: Waqar Siddhu**

Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

A popular use of \_\_\_\_\_ is TCP Splicing.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

NAT

NAT ✓

Twice NAT

CAT

**Made by: Waqar Siddhu**

Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

The routers within an autonomous system use a \_\_\_\_\_ to exchange routing information.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Exterior Gateway protocol (EGPs)

Both Interior Gateway protocols (IGPs) and Exterior Gateway protocol (EGPs) ✓

Border Gateway Protocol (BGP)

Interior Gateway protocols (IGPs)

**Made by: Waqar Siddhu**

Question No : 21 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

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

**Made by: Waqar Siddhu**

Question No : 22 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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

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

**Made by: Waqar Siddhu**

Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

Which method of Address Resolution Protocol is useful with any hardware?

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

- T
- C
- D
- C, D

**Made by: Waqar Siddhu**

Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

ARP is almost always used to bind a \_\_\_ bit IP address to a \_\_\_ bit Ethernet address.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

32, 48

48, 32

32, 64

32, 128

Made by: Waqar Siddhu

Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

The term \_\_\_\_\_ refers to the general concept of a small block of data in a network.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Packet

Byte

Cell

Information

Made by: Waqar Siddhu

Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

The number of connections needed for N computer in direct point to point communication is equal to \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

$(N^2 - N)/2$

$N(N - 1)$

$N^2$

$N - 1$

Made by: Waqar Siddhu

Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

Local Talk is a LAN technology that employs \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Bus topology

Ring topology

Mesh topology

Star topology

Made by: Waqar Siddhu

Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

FDDI can transmits data at a rate of \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

100 million bits per second

10 million bits per second

1000 million bits per second

3 million bits per second

Made by: Waqar Siddhu

Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Class A

Class B

Class C

Class D

Made by: Waqar Siddhu

Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ field tells the receiver how to order fragments within a given datagram.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Fragment offset

Identification

Header checksum

Flags

**Made by: Waqar Siddhu**

Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ interconnects two independent TCP connections and performs segment rewriting.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Twice NAT

CAT

TCP Splicing

NAT

**Made by: Waqar Siddhu**

Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

Find the class of the address.

10100111.11011011.10001011.01101111

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

A

B

E

C

**Made by: Waqar Siddhu**

Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

Find the class of the address:

11110011.10011011.11111011.00001111

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

A

C

C

E

C

B

**Made by: Waqar Siddhu**

Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

Whenever IP software handles a packet, it needs to separate the destination address into a \_\_\_\_\_ and \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Infix, suffix

C

Postfix, Infix

C

Infix, prefix

C

Prefix, suffix

C

**Made by: Waqar Siddhu**

Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ of TCP/IP layering model is closest to network hardware.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Physical Layer

C

Network Interface Layer

C

Data link Layer

C

Transport Layer

C

**Made by: Waqar Siddhu**

Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

Base header of IPv6 is fixed size and consists of \_\_\_\_\_ octets.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

32

64

40

16

**Made by: Waqar Siddhu**

Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ allows a host to inform a nearby router whenever the host needs to join or leave a particular multicast group.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

IGMP

OSPF

BGP

UDP

**Made by: Waqar Siddhu**

Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

The process of using a routing table to select a next hop for a given datagram is called \_\_\_\_\_.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Switching

Reassembling

Routing or forwarding

Fragmentation

**Made by: Waqar Siddhu**

Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following protocols allow(s) the sender and receiver to enforce policies.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

RIP

OSPF

BGP

RIP and OSPF

**Made by: Waqar Siddhu**

Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

In TCP when a computer sends a segment, the \_\_\_\_\_ and \_\_\_\_\_ fields refer to incoming data.

Answer ( Please select your correct option )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Acknowledgement number, Window

Sequence number, Window

Acknowledgement number, Sequence number

Source address, Sequence number

**Made by: Waqar Siddhu**

Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Normal Arial 12 B I U

**Made by: Waqar Siddhu**

Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

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](#) )

WWW.VirtualAcademyLive.com



**Made by: Waqar Siddhu**

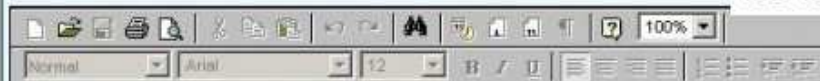
Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

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

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

WWW.VirtualAcademyLive.com



**Made by: Waqar Siddhu**

Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

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

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

WWW.VirtualAcademyLive.com



**Made by: Waqar Siddhu**

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

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 )

WWW.VirtualAcademyLive.com



*Made by: Waqar Siddhu*

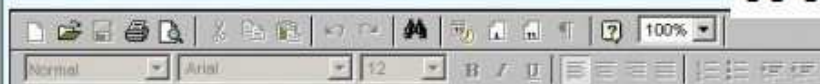
Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

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 )

WWW.VirtualAcademyLive.com



*Made by: Waqar Siddhu*

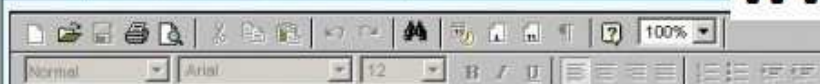
Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

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 )

WWW.VirtualAcademyLive.com



*Made by: Waqar Siddhu*

Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

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 )

WWW.VirtualAcademyLive.com



**Made by: Waqar Siddhu**

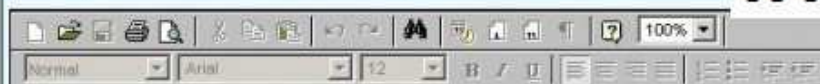
Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

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 )

WWW.VirtualAcademyLive.com



**Made by: Waqar Siddhu**

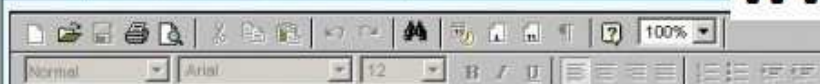
Question No : 50 of 52

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 )

WWW.VirtualAcademyLive.com



**Made by: Waqar Siddhu**

Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

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 )

WWW.VirtualAcademyLive.com



Made by: Waqar Siddhu

Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

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 )

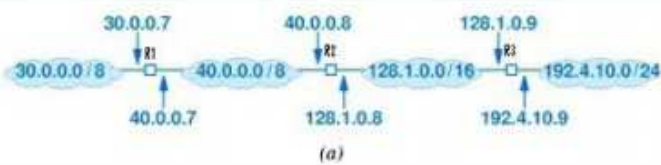
WWW.VirtualAcademyLive.com



Made by: Waqar Siddhu

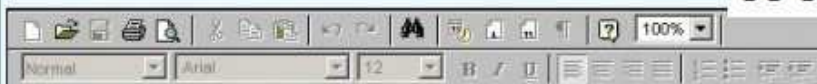
Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)



Answer ( Please click here to Add Answer )

WWW.VirtualAcademyLive.com




Made by: Waqar Siddhu

(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 )

[WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)



Normal Arial 12

**Made by: Waqar Siddhu**