



Virtual University

About Us

CS610  
Solved Final Term Paper 3

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Year  
2017

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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 )

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☐ 21-bit

☐ 22-bit

☐ 23-bit

☒ 24-bit

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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 )

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☐ Star Topology

☐ Ring Topology

☒ Bus Topology

☐ Tree Topology

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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 )

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☐

10 Mbps

☒

100 Mbps

☐

1000 Mbps

☐

1 Gbps

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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 )

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☒

Star Topology

☐

Ring Topology

☐

Bus Topology

☐

Mesh Topology

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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 )

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☐

Burned MAC

☒

Static addressing scheme

☐

Configurable addressing scheme

☐

Dynamic addressing scheme

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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 )

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- ☒ Connectionless service paradigm ✓
- ☐ Connection-oriented service paradigm
- ☐ Both Connectionless and Connection-oriented service paradigm
- ☐ Connection-oriented service paradigm without acknowledgment

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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 )

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- ☐ RIP and OSPF
- ☐ RIP
- ☐ OSPF
- ☒ BGP ✓

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Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

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- ☐ BGP
- ☐ OSPF
- ☒ RIP ✓
- ☐ EGP

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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 )

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☒

Flood-and -Prune

☐

Configuration-and -Tunneling

☐

Core-Based Discovery

☐

Forwarding

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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 )

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☐

Flood-and -Prune

☒

Configuration-and -Tunneling

☐

Core-Based Discovery

☐

Forwarding

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Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

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☐

IP, TCP

☒

TCP, IP

☐

TCP, UDP

☐

UDP, TCP

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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 )

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☐ Ring

☐ Mesh

☐ Bus

☒ Star

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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 )

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☐ Square root, Cube root

☒ Double, Triple

☐ Triple, Quad

☐ Double, Quad

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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 )

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☐ Subnet addressing

☒ Classful addressing

☐ Address mask

☐ Classless addressing

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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 )

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16-bit

☐

48-bit

☐

32-bit

☒

8-bit

☐

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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 )

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127

☐

128

☒

131

☐

192

☐

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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 )

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T, C

☐

T

☐

C

☐

D

☒

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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 )

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IP

☐

Transport Protocol

☒

RIP

☐

ARP

☐

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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 )

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UDP

☐

Transport Protocols

☐

RIP

☐

IP

☒

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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 )

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ICMP

☐

UDP

☒

TCP

☐

IP

☐

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Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

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☐ NAT

C

☒ NAPT

C

☐ Twice NAT

C

☐ CAT

C

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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 )

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☐ RIP and BGP

C

☐ OSPF and BGP

C

☐ BGP and OSPF

C

☒ RIP and OSPF

C

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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 )

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☒ Distance Vector Multicast Routing Protocol

C

☐ Core Based Trees

C

☐ Protocol Independent Multicast \_ Sparse Mode

C

☐ Protocol Independent Multicast \_ Dense Mode

C

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 )

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☒ T

☐ C

☐ D

☐ C, D

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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 )

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☒ T

☐ C

☐ D

☐ T, C

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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 )

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☒ Bus topology

☐ Ring topology

☐ Mesh topology

☐ Star topology

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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
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\_\_\_\_\_ 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
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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
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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 )

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☐ Intranet, LAN

☐ Internet, WAN

☐ Intranet, WAN

☒ Internet, LAN

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Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

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☐ Suffix

☐ Frame

☒ Prefix

☐ Packet

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Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

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☐ 1990s

☒ 1970s

☐ 1960s

☐ 1950s

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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 )

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☒ Router

☐ Hub

☐ Switch

☐ Repeater

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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 )

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☐ 32

☐ 64

☒ 40

☐ 16

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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 )

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☒ Fixed-size

☐ Static

☐ Variable size

☐ Dynamic

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Question No : 36 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

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☐ Physical

☐ Data link

☐ Network

☒ Transport

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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 )

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☐ UDP

☒ TCP

☐ ICMP

☐ IP

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Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

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☐ Distance vector routing

☒ Link state routing

☐ Path vector routing

☐ Distance vector routing and Link state routing

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\_\_\_\_\_ 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

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

Answer ( Please [click here](#) to Add Answer ) [WWW.VirtualAcademyLive.com](http://WWW.VirtualAcademyLive.com)

Rich text editor toolbar with options: Normal, Arial, 12, Bold, Italic, Underline, Bulleted list, Numbered list, Indent, Outdent, Undo, Redo, 100% zoom.

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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](#) )

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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](#) )

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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](#) )

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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 occurs with it? List any two problems.

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

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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](#) )

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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](#) )

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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](#) )

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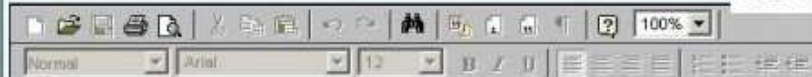
Question No : 49 of 52

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](#) )

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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](#) )

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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](#) )

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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](#) )

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