



Virtual University

About Us

CS610  
Solved Final Term Paper 8

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

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)

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

Answer ( Please select your correct option )

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☐ 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 )

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☒ 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 )

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☐ 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 )

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☐ 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 )

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☐ 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 )

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☐ 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 )

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☐ 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 )

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☐ 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 )

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☐

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 )

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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)

Which of the following is not a transmission medium?

Answer ( Please select your correct option )

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☐

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 )

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8

☐

10

☐

16

☐

doubt

32

☐

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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 )

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Frame type

☐

CRC

☐

Destination address

☐

Source address

☐

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Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

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16

☐

24

☐

32

☐

8

☐

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Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

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5%

☐

10%

☒

12%

☐

15%

☐

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Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

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Virtual Private Network

☐

Isochronous Network

☐

Asynchronous Network

☒

← not sure

Synchronous Network

☐

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Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

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Half 1s

☐

All 1s

☐

Half 0s

☐

All 0s

☐

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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 )

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☐ Unicast

☐ Anycast

☒ Multicast

☐ Broadcast

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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 )

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☒ Cluster

☐ Unicast

☐ Multicast

☐ Anycast

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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 )

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☐ TCP

☒ UDP

☐ IP

☐ ICMP

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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 )

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☐ UDP

☐ Transport Protocols

☐ RIP

☒ IP

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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 )

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☐ ICMP

☒ UDP

☐ TCP

☐ IP

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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 )

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☐ 8-bit

☐ 64-bit

☒ 32-bit

☐ 16-bit

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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 )

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☐ Administrative cost and routing metrics

☐ Routing metrics and hop count

☐ Administrative count and hop cost

☐ Administrative cost and hop count

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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 )

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☐ Exterior Gateway protocol (EGPs)

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

☐ Border Gateway Protocol (BGP)

☐ Interior Gateway protocols (IGPs)

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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 )

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☒ Distance Vector Multicast Routing Protocol

☐ Core Based Trees

☐ Protocol Independent Multicast \_ Sparse Mode

☐ Protocol Independent Multicast \_ Dense Mode

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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 )

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☐ Layer 2 source address

☐ Layer 3 source address

☒ Layer 2 destination address

☐ Layer 3 destination address

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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 )

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☐ Closed-form computation

☐ Message Exchange

☐ Table look-up

☒ Direct indexing

doubt

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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 )

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☒ T

☐ C

☐ D

☐ C, D

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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 )

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☐ C

☐ T

☒ D

☐ D, C

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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 )

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☐ Class A

☐ Class B

☒ Class C

☐ Class D

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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 )

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☐ 48-bit

☒ 32-bit

☐ 24-bit

☐ 12-bit

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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 )

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☐ Infix, suffix

☐ Postfix, Infix

☐ Infix, prefix

☒ Prefix, suffix

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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 )

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☐ Intranet, LAN

☐ Internet, WAN

☐ Intranet, WAN

☒ Internet, LAN

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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 )

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☐ 1990s

☒ 1970s

☐ 1960s

☐ 1950s

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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 )

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☒ Router

☐ Hub

☐ Switch

☐ Repeater

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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 )

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☐ 32

☐ 64

☒ 40

☐ 16

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Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

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☐ 128 bytes

☐ 32 bits

☒ 128 bits

☐ 64 bits

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Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

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☐ Network

☐ Data link

☒ Transport

☐ Application

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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 )

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☐ RIP

☐ OSPF

☒ BGP

☐ RIP and OSPF

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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 )

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Normal Arial 12 B I U

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 )

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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 )

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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 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 )

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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 )

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**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 )

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**Made by: Waqar Siddhu**

Question No : 48 of 52

Marks: 3 (Budgeted Time 5 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 )

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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 )

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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 )

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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 )

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

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

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

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