



Virtual University

About Us

CS610
Solved Final Term Paper 5

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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)
The Gigabit Ethernet hardware operates at a rate of -----	
Answer (Please select your correct option)	
<input type="radio"/> 10 Mbps	WWW.VirtualAcademyLive.com
<input type="radio"/> 100 Mbps	
<input type="radio"/> 1000 Mbps	
<input type="radio"/> 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)	
<input type="radio"/> 10 Base 2	WWW.VirtualAcademyLive.com
<input type="radio"/> 10 Base 5	
<input type="radio"/> 10 Base T	
<input type="radio"/> 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)

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☐

Destination Port

☐

Source port

☐

Logical address

☐

Physical Address

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Question No : 4 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 : 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)

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☐

Flood-and -Prune

☐

Configuration-and -Tunneling

☐

Core-Based Discovery

☐

Forwarding

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Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

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☐

2



correct

☐

3

☐

4

☐

5

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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)

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☐

16-bit

☐

48-bit

☐

32-bit

☐

8-bit

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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)

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☐

TCP

☐

UDP

☐

IP

☐

ICMP

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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)

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☐ 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)

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☐ ICMP

☐ UDP

☐ TCP

☐ IP

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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)

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☐ Distance to destination and current traffic conditions

☐ Current traffic conditions

☐ Distance to destination

☐ Nature of the data

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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)

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

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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)

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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 : 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)

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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 : 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)

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☐ Protocol Independent Multicast _ Sparse Mode

☐ Protocol Independent Multicast _ Dense Mode

☐ Distance Vector Multicast Routing Protocol

☐ Core Based Trees

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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)

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☐ ICMP

☐ Address Resolution

☐ Message Exchange

☐ Hashing

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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)

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☐ Closed-form computation

☐ Message Exchange

☐ Table look-up

☐ Direct indexing

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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)

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☐ D

☒ C



correct

☐ T, D

☐ C, D

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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)

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☐ C

☐ T

☒ D



correct

☐ D, C

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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)

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☐ Greedy Algorithm

☐ Distance vector Algorithm

☐ Dijkstra's algorithm

☐ Binary Search Algorithm

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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)

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☐ T + D

☐ T x D/Unit Time

☐ T / D.

☐ T x D

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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)

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☐ CSMA/CD

☐ CSMA/CA

☐ Token Passing

☐ Round Robin

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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)

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☐ 100 million bits per second

☐ 10 million bits per second

☐ 1000 million bits per second

☐ 3 million bits per second

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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)

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☐

Packet's destination

correct

☐

Packet's original source

☐

Path the packet has taken

☐

Routed Protocol

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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)

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☐

Loop

☐

Filters

☐

Spanning Trees

☐

Addressing

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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)

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☐

Class A

☐

Class B

☐

Class C

☐

Class D

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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)

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☐ 48-bit

☐ 32-bit

☐ 24-bit

☐ 12-bit

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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)

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☐ Prefix , prefix

☐ Suffix , prefix

☐ Suffix, suffix

☐ Prefix, suffix

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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)

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☐ Flag

☐ Service type

☐ Identification

☐ Fragment offset

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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)

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☐ Suffix

☐ Frame

☐ Prefix

☐ Packet

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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)

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☒ Physical Layer

correct

☐ Network Interface Layer

☐ Data link Layer

☐ Transport Layer

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Question No : 32 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

correct

☐ 64 bits

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Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

IPng stands for _____.

Answer (Please select your correct option)

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☐ IP New Generation

☐ IP Nth Generation

☐ IP Next Generation

☐ IP Net Generation

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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)

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☐ Fixed-size

☐ Static

☐ Variable size

☐ Dynamic

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Question No : 35 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 : 36 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 : 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)

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☐ Unicast

☐ Multicast

☐ Broadcast

☐ Unicast & Multicast

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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)

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☐ RIP

☐ OSPF

☐ BGP

☐ IGP

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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)

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- ☐ Routing or forwarding
- ☐ Fragmentation
- ☐ Switching
- ☐ Reassembling

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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)

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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)

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)

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Rich text editor toolbar with icons for Bold, Italic, Underline, Text Color, Background Color, Bulleted List, Numbered List, Indent, Outdent, Link, Unlink, and a 100% zoom level.

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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](#))

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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](#))

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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](#))

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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](#))

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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)

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](#))

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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)

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](#))

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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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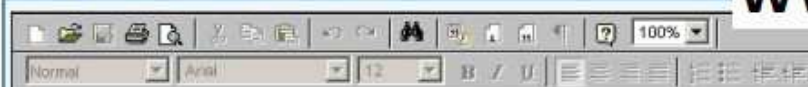
Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

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](#))

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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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