



Virtual University

About Us

CS610  
Solved Final Term Paper 1

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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)
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 )	
<input checked="" type="radio"/> Packet Division Multiplexing	<a href="http://WWW.VirtualAcademyLive.com">WWW.VirtualAcademyLive.com</a>
<input type="radio"/> Time Division Multiplexing	
<input type="radio"/> Frequency Division Multiplexing	
<input type="radio"/> Wave Division Multiplexing	
<b>Made by: Waqar Siddhu</b>	
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 )	
<input checked="" type="radio"/> eot, complete	<a href="http://WWW.VirtualAcademyLive.com">WWW.VirtualAcademyLive.com</a>
<input type="radio"/> soh, complete	
<input type="radio"/> soh, incomplete	
<input type="radio"/> eot, incomplete	
<b>Made by: Waqar Siddhu</b>	



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
<input type="radio"/>	LANs, Connectionless service paradigm	Made by: Waqar Siddhu
<input type="radio"/>	WANs, Connectionless service paradigm	
<input type="radio"/>	Both LANs and WANs, Connectionless service paradigm	
<input checked="" type="radio"/>	Both LANs and WANs, Connection-oriented service paradigm	
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
<input type="radio"/>	Physical Layer	Made by: Waqar Siddhu
<input type="radio"/>	Network Interface Layer	
<input type="radio"/>	Internet Layer	
<input checked="" type="radio"/>	Transport Layer	
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
<input type="radio"/>	Router and Gateway	Made by: Waqar Siddhu
<input type="radio"/>	Router or software	
<input checked="" type="radio"/>	Router or Gateway	
<input type="radio"/>	Switch	



Question No : 6 of 52		Marks: 1 (Budgeted Time 1 Min)
<p>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.</p>		
Answer ( Please select your correct option )		WWW.VirtualAcademyLive.com
<input type="radio"/>	1990s	
<input checked="" type="radio"/>	1970s	
<input type="radio"/>	1960s	
<input type="radio"/>	1950s	
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Question No : 7 of 52		Marks: 1 (Budgeted Time 1 Min)
<p>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?</p>		
Answer ( Please select your correct option )		WWW.VirtualAcademyLive.com
<input checked="" type="radio"/>	T	
<input type="radio"/>	C	
<input type="radio"/>	D	
<input type="radio"/>	C, D	
Made by: Waqar Siddhu		
Question No : 8 of 52		Marks: 1 (Budgeted Time 1 Min)
<p>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?</p>		
Answer ( Please select your correct option )		WWW.VirtualAcademyLive.com
<input checked="" type="radio"/>	T	
<input type="radio"/>	C	
<input type="radio"/>	D	
<input type="radio"/>	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
<input type="radio"/>	routing path	
<input type="radio"/>	routing metric	
<input checked="" type="radio"/>	routing	
<input type="radio"/>	switching	
Made by: Waqar Siddhu		
Question No : 10 of 52		Marks: 1 (Budgeted Time 1 Min)
Incse 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
<input checked="" type="radio"/>	seconds	idea
<input type="radio"/>	microseconds	
<input type="radio"/>	milliseconds	
<input type="radio"/>	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
<input type="radio"/>	8-bit	
<input type="radio"/>	64-bit	
<input checked="" type="radio"/>	32-bit	
<input type="radio"/>	16-bit	
Made by: Waqar Siddhu		

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

Answer ( Please select your correct option )

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☒ RIP

☐ OSPF

☐ BGP

☐ RIP and OSPF

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A OSPF area is -----

Answer ( Please select your correct option )

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☒ Part of an Autonomous System

☐ Composed of at least two As's

☐ Another term of an internet

☐ A collection stub area

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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 )

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☐ 16

☐ 24

☒ 32

☐ 64

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

Answer ( Please select your correct option )

- ☐ administrative cost and routing metrics
- ☐ administrative count and hop cost
- ☐ administrative cost and hop count
- ☐ routing metrics and hop count :ooO doubt

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Hardware that calculates a CRC uses two simple components.

Answer ( Please select your correct option )

- ☐ AND unit with XOR unit
- ☒ Shift register with XOR unit ✓
- ☐ Shift register with AND unit
- ☐ Shift register with shift XOR unit

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

Answer ( Please select your correct option )

- ☐ Star Topology
- ☒ Ring Topology ✓
- ☐ Bus Topology
- ☐ Dual Ring Topology

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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

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☐ CSMA/CA

☐ TOKEN PASSING

☐ Round Robin

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

Answer ( Please select your correct option )

☐ Burned MAC

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☒ Static addressing scheme

☐ Configurable addressing scheme

☐ Dynamic addressing scheme

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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 )

☐  $T + D$

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☐  $T \times D / \text{Unit Time}$

☐  $T / D$

☒  $T \times D$

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10



\_\_\_\_\_ is used for audio and video, since these have predefined maximum data rates

Answer ( Please select your correct option )

☒ Constant Bit Rate (CBR) service

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☐ Variable Bit Rate (VBR) service

☐ Available Bit Rate (ABR) service

☐ Uniform Bit Rate (UBR) service

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

Answer ( Please select your correct option )

☐ Telnet

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☒ Ping

☐ Traceroute

☐ ICMP

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

Answer ( Please select your correct option )

☐ Destination Port

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☒ Source port

☐ Logical address

☐ Physical Address

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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

☐ Reassembling

☒ Routing or forwarding

☐ Fragmentation

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

Answer ( Please select your correct option )

☐ BGP

☐ OSPF

☒ RIP

☐ EGP

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

Answer ( Please select your correct option )

☐ BGP

☐ OSPF

☒ RIP

☐ EGP

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\_\_\_\_\_ 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

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☐ RIP

☒ OSPF

☐ BGP

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\_\_\_\_\_ 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

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☒ Configuration-and-Tunneling

☐ Core-Based Discovery

☐ Forwarding

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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

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☒ Host computer

☐ Bridge

☐ Hub

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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

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☒ 32-bit

☐ 24-bit

☐ 12-bit

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

Answer ( Please select your correct option )

☐ suffix, prefix

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☐ postfix, Infix

☐ Infix, prefix

☒ prefix, suffix

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

Answer ( Please select your correct option )

☐ ICMP

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☒ Address Resolution

☐ Message Exchange

☐ Hashing

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

Answer ( Please select your correct option )

☐ IP header

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☒ MTU

☐ Size

☐ Frame header

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

Answer ( Please select your correct option )

☒ FLAGS

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☐ SERVICE TYPE

☐ IDENTIFICATION

☐ FRAGMENT OFFSET

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

Answer ( Please select your correct option )

☐ FRAGMENT OFFSET

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☒ IDENTIFICATION

☐ HEADER CHECKSUM

☐ FLAGS

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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

☐ Variable size

☐ dynamic

☒ fixed-size

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

Answer ( Please select your correct option )

☐ Ping

☒ Tracert

☐ cmd

☐ routers

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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

☒ UDP

☐ IP

☐ ICMP

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

Answer ( Please select your correct option )

☒ IP

☐ Transport Protocols

☐ RIP

☐ UDP

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

Answer ( Please select your correct option )

☐ IP, TCP

☒ TCP, IP

☐ TCP, UDP

☐ UDP, TCP

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Is bridge an intelligent device? If yes then how.

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

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What are the services provided by TCP?

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

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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](#) )

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What is the concept of Zero-compression regarding IPv6?

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

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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](#) )

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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](#) )

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

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

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

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

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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](#) )

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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](#) )

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

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

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

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

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