



CS-610 Computer Network Update MCQS For Quiz-3 File Solve By Vu Topper RM



85 To 100% Marks



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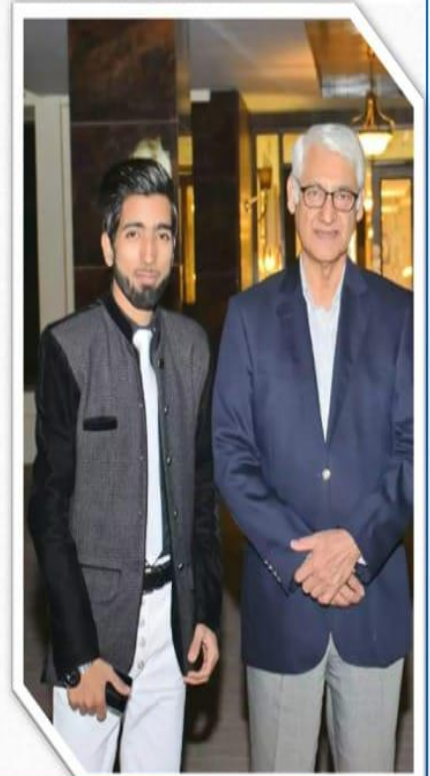
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Dotted decimal notation is a syntactic form the IP software uses to express _____ binary values when interacting with humans.

- A. 8-bit
- B. 16-bit
- C. 32-bit**
- D. 64-bit

Page 87

There are _____ possibilities to detect the destination using Trace-route

- A. 2**
- B. None
- C. 3
- D. 1

Page 118

TTL stands for _____

- A. Time to live**
- B. Time to learn
- C. Time to leave
- D. None of the given

Page 105

H.LEN shows the header length in units of _____ Bits

- A. 30
- B. 32**
- C. 34
- D. None of the given

Page 105

_____ Protocol provides error reporting mechanism.

- A. ICMP**
- B. SNMP

Page 115

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C. IGMP

D. None of the given

Internet protocol (IP) address version 4 is comprised of _____ bits.

A. 8

B. 16

C. 32 **Google**

D. 64

IPv6 addresses are _____ bits.

A. 32

B. 64

C. 128 **Page 111**

D. 256

TCP provides reliable connection startup.

False **Page 123**

True

_____ is a technique used to Limit datagram size to small MTU of any network.

A. Segmentation

B. Encapsulation

C. Fragmentation **Page 108**

D. None of the given

The Current version of IP-Version 4 is _____ old

A. 10 Year

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B. 20 Year

Page 110

C. 25 Year

D. 30 Year

The protocol address of the next hop must be _____ to an equivalent hardware address before a packet can be sent.

A. Encrypted

B. Decrypted

C. Translated

Page 93

D. Segmented

Preliminary version of IP was called _____.

A. IP – Net Generation (IPng)

B. IP – New Generation (IPng)

C. None of the given

D. IP – Next Generation (IPng)

Page 110

One of the parameters, which motivated IP for change is address space.

The _____ address space allows for over a million networks. But most networks are class C and too small for many organizations.

A. 16-bit

B. 32-bit

Page 110

C. 64-bit

D. 128-bit

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

A. Session

B. Internet Layer

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C. Network interface layer

D. Internet Layer

All of the given options are the types of delay except_____.

A. Propagation

B. Access

C. Throughput

Page 79

D. Queuing

_____ provides computer to computer communication.

A. IP

Page 119

B. TCP

C. IGMP

D. ICMP

UDP datagram format is _____ bits.

A. 8

B. 16

C. 32

Page 112

D. 64

Routers use _____ to forward datagrams along prearranged path.

A. Flow label

Page 111

B. Traffic class

C. Destination address

D. None of the given

MTU Stands for _____

A. Multicast transmission unit

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B. Minimum transmission unit

C. None of the given

D. Maximum transmission unit **Page 107**

TCP achieves _____ by retransmission.

A. Accuracy

B. Efficiency

C. Reliability **Page 125**

D. None of the given

which is not the type of error messages defined by ICMP.

A. Source quench

B. Time exceeded

C. None of the given **Page 115**

D. Destination unreachable

A separate _____ table is used for each physical network.

A. Checksum

B. CRC

C. Bit-binding

D. Address-binding **Page 94**

_____ is used for single destination computer.

A. Unicast **Page 114**

B. Multicast

C. Broadcast

D. None of the given

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_____ uses window mechanism to control the flow of data.

A. IP

B. TCP

Page 126

C. UDP

D. None of the given

_____ of TCP/IP Protocol Suit specifies the format of packets sent across Internet as well as the mechanisms used to forward packets.

A. Physical Layer

B. Transport Layer

C. Data Link Layer

D. Internet Layer

_____ Serve Same purpose in Internet as frames on LAN

A. Packet

B. Virtual frames

C. Both

D. Virtual Packets

Page 101

UDP provides connection-oriented service.

True

False

Page 120

In TCP/IP, _____ provides reliable transport service.

A. IP

B. TCP

Page 123

C. Both IP and TCP

D. None of the given

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Every hardware technology specification includes the definition of the maximum size of the frame data area, which is called the _____
Transmission Unit.

- A. Least
- B. Frame
- C. Fragment

D. Maximum

Page 107

Dotted decimal represents each octet in _____ and uses a dot to separate octets.

- A. Octal
- B. binary

C. Decimal

Page 87

D. hexadecimal

TCP connections are not called Virtual connections.
True

False

Page 123

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

A. FLAGS

Page 373

B. None of the given

C. IDENTIFICATION

D. FRAGMENT OFFSET

Fragmentation when using ICMP for path MTU should be avoided.

True

Page 118

False

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_____ is a type of address used for collection of computers with same prefix.

A. Unicast

B. Cluster

Page 114

C. Multicast

D. None of these

In Closed-form computation, the protocol address assigned to a computer is chosen carefully so that computer's hardware address can be computed from the protocol address using basic Boolean and _____ operations.

A. XOR

B. Shift

C. XNOR

D. Arithmetic

Page 94

End to End delivery Service of IP datagram is _____

A. Connectionless

Page 101

B. Connection oriented

C. Both

D. None of the given

The Header format of IPv6 is entirely different.

True

Page 111

False

Address mask defines how many bits of address are in prefix.

True

Page 103

False

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As the Internet grew, the original Classful addressing scheme became a limitation. The IP address space was being exhausted because all networks had to choose one of _____ possible sizes.

- A. One
- B. Two
- C. Four

D. Three

Page 90

When there is heavy traffic on the network, the queuing time is _____.

- A. Zero
- B. Fixed

C. Increased

Google

D. Decreased

_____ are two standard implementations to improve computational efficiency.

A. Hashing and Direct indexing

Page 94

- B Segmentation and Fragmentation
- C. Queuing and Packetizing
- D. Indexing and Framing

NEXT HEADER field in the base header defines type of header it appears at the end of fixed-size base header.

True

Page 112

False

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The IP class scheme does not divide the _____ address space into equal size class and the classes do not contain the same number of networks.

- A. 8-bit
- B. 16-bit
- C. 32-bit**
- D. 64-bit

Page 88

A network with _____ jitter takes more time to deliver some packets than others.

- A. Zero
- B. High**
- C. Low
- D. Moderate

Page 80

The UDP stands for_____.

- A. None of the given
- B. User Datagram Protocol**
- C. United Datagram Protocol
- D. Universal Datagram Protocol

Page 119

_____ layer Provides reliable delivery of datagram.

- A. Network
- B. Transport**
- C. Data link
- D. None of the given

Page 104

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The Universal Datagram Protocol is a message-oriented protocol.

True **Google**

False

TCP stands for _____

- A. None of the given
- B. Terminal control protocol
- C. Transport control protocol**
- D. Transmission control protocol

Page 123

Mapping between a protocol address and a hardware address is called _____.

- A. Segmentation
- B. Hashing
- C. Fragmentation
- D. Address Resolution**

Page 93

Reliability is not the responsibility of the Transport layer.

True

False **Page 123**

_____ encapsulates IP datagram as data area in hardware frame.

- A. Datalink Layer
- B. Network Layer
- C. None of the given
- D. Network Interface Layer**

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_____ sends ICMP echo messages with increasing TTL.

A. Ping

B. Tracert **Page 118**

C. Trace route

D. None of the given

_____ is less complex and easy to understand.

A. IP

B. TCP

C. UDP **Page 120**

D. None of the given

UDP packet is encapsulated in _____ datagram.

A. IP **Page 122**

B. TCP

C. TCP/IP

D. None of the given

Inside a computer, each address mask is stored as a _____-bit value.

A. 32 **Page 91**

B. 16

C. 48

D. 64

ICMP message transport is acted upon by getting ICMP _____ in IP.

A. Segmented

B. Encapsulated **Page 117**

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- C. De-encapsulated
- D. None of the given

Class A mask is 255.0.0.0 which is used for _____

A. Subnetting

- B. Unicasting
C. Multicasting
D. All of the given option

For _____, information about forwarding is stored in a routing table, which is initialized at system initialization and must be updated as network topology changes.

- A. Security
- B. Accuracy
- C. Efficiency**
- D. Anomalies

Page 102

The amount of buffer space available at any time is called the window.

True Page 126

False

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

- A. Physical Layer
- B. Internet Layer
- C. Network Interface Layer

D. Transport Layer Page 84

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- A. Mux
- B. Surffix
- C. Demux

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A. Throughput

Page 79

- ### A. Rectifier

Page 102

- True

Page 124

A. 1000 octets

Page 126

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TCP/IP defines the term_____ to refer any computer system that connects to a network and runs applications for users.

A. Router

B. Switch

C. Host computer Page 84

D. Bridge

Question No:1

(Marks:1)

Vu-Topper RM

Question No:2

(Marks:1)

Vu-Topper RM

Question No:3

(Marks:1)

Vu-Topper RM

_____is used for typical data applications (where the data rate may be unknown and bursty) and allows use of whatever bandwidth is available at a given time.

A. Variable Bit Rate (VBR) service

B. Constant Bit Rate (CBR) service

C. Available Bit Rate (ABR) service

Page 71

D. None of the given

Question No:4

(Marks:1)

Vu-Topper RM

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

A. 22-bit

B. 24-bit

Page 67

C. 26-bit

D. 28-bit

Question No:5

(Marks:1)

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_____of TCP/IP layering model, corresponds to basic network hardware.

A. Internet

Layer

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B. Physical Layer

Page 84

C. Transport Layer

D. Network Interface Layer

Question No:6

(Marks:1)

Vu-Topper RM

_____places the boundary between the second and third octets.

A. Class A

B. Class B

Page 86

C. Class C

D. Class D

Question No:7

(Marks:1)

Vu-Topper RM

UDP and TCP are both_____layer protocols.

A. Network

B. Physical

C. Data link

D. Transport

Page 101

Question No:8

(Marks:1)

Vu-Topper RM

Connection-oriented service, Point-to-point, Complete reliability, Full-duplex communication, Stream interface, Reliable connection startup and Graceful connection shutdown are the services provided by.

A. IP

B. TCP

Page 123

C. Both

D. None of the given

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Question No:9

(Marks:1)

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

A. RIP

Page 138

B. BGP

C. OSPF

D. None of the given

Question No:10

(Marks:1)

Vu-Topper RM

The term self-identifying is used for Classful IP addresses because the class of the address can be computed from the address

A. Itself

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B. Suffix

C. Mask

D. Prefix

Question No:11

(Marks:1)

Vu-Topper RM

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?

A. C

B. D

C. T, C

D. T, D

Page 97

Question No:12

(Marks:1)

Vu-Topper RM

In which method of Address Resolution Protocol the protocol address is determined by hardware address? Were "T" stands for Table lookup, "C" for Closed-form Computation and "D" for Data Exchange?

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A. A

B. B

C. C **Page 97**

D. D

Question No:13

(Marks:1)

Vu-Topper RM

_____provide Application to application communication it also called end to end communication

A. IP

B. TP **Page 119**

C. RIP

D. None of the given

Question No:14

(Marks:1)

Vu-Topper RM

Router detects datagram ----- than network

A. MTU

B. Larger **Page 108**

C. Smaller

D. None of the given

Question No:15

(Marks:1)

Vu-Topper RM

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

A. Connectionless service paradigm **Page 112**

B. Connection-oriented service paradigm

C. Both Connectionless and Connection-oriented service paradigm

D. None of the given

Question No:16

(Marks:1)

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_____places the boundary between the third and fourth octets.

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- A. Class A
- B. Class B
- C. Class C**
- D. Class D

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Question No:17

(Marks:1)

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_____identifies which application program on receiving computer should receive the data

- A. Source port
- B. Logical address
- C. Destination Port**
- D. None of the given

Question No:18

(Marks:1)

Vu-Topper RM

Which method of Address Resolution Protocol requires hardware broadcast? Where "T" stands for Table lookup, "C" for Closed-form Computation and "D" for Data Exchange?

- A. C
- B. D**
- C. T
- D. D, C

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Question No:19

(Marks:1)

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Question No:20

(Marks:1)

Vu-Topper RM

Question No:21

(Marks:1)

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Question No:22

(Marks:1)

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In the IP address _____identifies an individual computer on the network.

- A. Prefix

B. Suffix

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C. Mux
D. Demux

Question No:23	(Marks:1)	Vu-Topper RM
Question No:24	(Marks:1)	Vu-Topper RM
Question No:25	(Marks:1)	Vu-Topper RM
Question No:26	(Marks:1)	Vu-Topper RM

Question No:27 (Marks:1) Vu-Topper RM
_____masks your IP address.
A. Firewall
B. Antivirus
C. VPN **Google**
D. Incognito mode

Question No:28 (Marks:1) Vu-Topper RM
Question No:29 (Marks:1) Vu-Topper RM
VPNs connections are sometimes called _____.
A. Tunnels **Page 75**
B. Open networking
C. Routing
D. Public network

Question No:30 (Marks:1) Vu-Topper RM
Question No:31 (Marks:1) Vu-Topper RM
Address Resolution Protocol is mostly used to bind a 32-bit IP address to a _____ Ethernet address.
A 16-bit
B 48-bit
C. 64-bit
D. 84-BIT

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Question No:32

(Marks:1)

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_____message is sent in response to incoming datagrams with problems.

A. TCP/IP

B. IGMP

C. ICMP

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D. None of the given

Question No:33

(Marks:1)

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TCP/IP protocol suit defines the basic characteristics of network hardware.

A. Physical Layer

B. Data Link Layer

C. Internet Layer

D. Transport Layer

Question No:34

(Marks:1)

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Question No:35

(Marks:1)

Vu-Topper RM

The identifier that is used for data transfer in the virtual circuit network is called _____.

A. Virtual circuit identifier

Google

B. Global address

C. Network identifier

D. IP identifier

Question No:36

(Marks:1)

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Question No:37

(Marks:1)

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Which types of VPNs are used for corporate connectivity across companies residing in different geographical locations?

A. Remote access VPNs

B. Peer-to-peer VPNs

C. Country-to-country VPNs

D. Site-to-site VPNs

Google

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Question No:38

(Marks:1)

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Question No:39

(Marks:1)

Vu-Topper RM

Computer networks are often called _____ because they use packet technology.

- A. Ethernet
- B. Switch network
- C. Packet network**
- D. None of the given

Question No:40

(Marks:1)

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

- A. Layer 2 source address
- B. Layer 2 destination address**
- C. Layer 3 destination address
- D. Source node's physical address

Question No:41

(Marks:1)

Vu-Topper RM

When an application _____ data, it makes a copy of the data available to all other computers on the network.

- A. Unicasting
- B. Multicasting
- C. Broadcasting**
- D. None of the given

Question No:42

(Marks:1)

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

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- A. IP
- B. TCP

C. UDP

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- D. None of the given

Question No:43

(Marks:1)

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Question No:44

(Marks:1)

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Question No:45

(Marks:1)

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OSPF is based on.

A. Link state routing

Page 140

B. Path vector routing

C. Distance vector routing

D. Distance vector routing and Link state routing

Question No:46

(Marks:1)

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_____performs local multicast and uses IP-in-IP encapsulation to send multicast datagrams from one site on the Internet to another

A. Core Based Trees (CBT)

B. Distance Vector Multicast Routing Protocol

Page 144

C. Protocol Independent Multicast_ Sparse Mode (PIM-SM)

D. Protocol Independent Multicast _ Dense Mode (PIM-DM)

Question No:47

(Marks:1)

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_____can be used to propagate information about remote networks.

A. Static routing

B. Dynamic routing

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C. Address resolution

D. None of the given

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Question No:48

(Marks:1)

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_____ protocol is designed to use within an organization.

A. OSPF

B. MOSPF

Page 139

C. MEOSPF

D. None of the given

Question No:49

(Marks:1)

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NAPT stands for.

A. None of the given

B. Network Address and Port Translation

Page 132

C. Network Address and Packet Translation

D. Network Address and Protocol Translation

Question No:50

(Marks:1)

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OSPF includes address mask with each address.

A. 30-bit

B. 32-bit

Page 140

C. 34-bit

D. 36-bit

Question No:51

(Marks:1)

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Question No:52

(Marks:1)

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TCP uses _____ mechanism to control the flow of data.

A. Door

B. Window

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C. Retransmission

D. Acknowledgment

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Question No:53

(Marks:1)

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IGPs stand for.

- A. None of the given
- B. Internal Gateway Protocols
- C. Interior Gateway Protocols**
- D. Intermediate Gateway Protocols

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Question No:54

(Marks:1)

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_____ protocol uses distance vector algorithm.

- A. IGP
- B. RIP**
- C. BGP
- D. None of the given

Page 139

Question No:55

(Marks:1)

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

- A. Flood-and -Prune**
- B. Core-Based Discovery
- C. Configuration-and -Tunneling
- D. None of the given

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Question No:56

(Marks:1)

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

- A. 0**
- B. 1
- C. 2

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D. 3

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D. None of the given

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D. All of these

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D. None of the given

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C. Both

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D. None of the given

Question No:62	(Marks:1)	Vu-Topper RM
Question No:63	(Marks:1)	Vu-Topper RM
Question No:64	(Marks:1)	Vu-Topper RM
Question No:65	(Marks:1)	Vu-Topper RM
Question No:66	(Marks:1)	Vu-Topper RM
Question No:67	(Marks:1)	Vu-Topper RM

Question No:68	(Marks:1)	Vu-Topper RM
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Routing refers to the of routing information

A. Propagation **Page 133**

- B. Transmission
- C. Communication
- D. None of the given

Question No:69	(Marks:1)	Vu-Topper RM
Question No:70	(Marks:1)	Vu-Topper RM
Question No:71	(Marks:1)	Vu-Topper RM
Question No:72	(Marks:1)	Vu-Topper RM

Which one is NOT the function of ping program

A. Reachability

B. Traceability **Page 117**

- C. Both
- D. None of the given

Question No:73	(Marks:1)	Vu-Topper RM
Question No:74	(Marks:1)	Vu-Topper RM

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_____ contains all information needed to deliver datagram to the destination.

A. Header

Page 102

B. Identifier

C. Data Area

D. None of the given

Question No:75

(Marks:1)

Vu-Topper RM

Question No:76

(Marks:1)

Vu-Topper RM

_____ shows senders preference for low latency, high Reliability.

A. TYPE

B. SERVICE TYPE

Page 105

C. SERVICE PRIORITY

D. None of the given

Question No:77

(Marks:1)

Vu-Topper RM

Question No:78

(Marks:1)

Vu-Topper RM

Question No:79

(Marks:1)

Vu-Topper RM

IP datagram can contains _____ octets.

A. 1-65.536

B. 0-65.535

C. 1-65.535

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D. None of the given

Question No:80

(Marks:1)

Vu-Topper RM

Question No:81

(Marks:1)

Vu-Topper RM

IPV6 address consists of _____

A. 32-bit

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B. 64-bit

C. 128 bits

Page 111

D. 182-bit

Question No:82

(Marks:1)

Vu-Topper RM

Question No:83

(Marks:1)

Vu-Topper RM

The Source can configure outgoing datagram's to avoid _____

A. Segmentation

B. Fragmentation

Page 118

C. Defragmentation

D. None of the given

Question No:84

(Marks:1)

Vu-Topper RM

Question No:85

(Marks:1)

Vu-Topper RM

Question No:86

(Marks:1)

Vu-Topper RM

Due to revolutionalization of IP-V6 the speed has increased from _____

A. 56kbps to 1gbps

Page 110

B. 512kbps to 1gbps

C. 56kbps to 512kbps

D. None of the given

Question No:87

(Marks:1)

Vu-Topper RM

The time for acknowledgement to arrive depends on.

A. Distance to destination

B. Current traffic conditions

C. Both

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D. None of the given

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Question No:88

(Marks:1)

Vu-Topper RM

Question No:89

(Marks:1)

Vu-Topper RM

_____ field is used to identify a specific path through the network

A. FLOW LABEL

Page 111

B. TRAFFIC CLASS

C. Both

D. None of the given

Question No:90

(Marks:1)

Vu-Topper RM

Which protocol is used to test different tools.

A. ICMP

Page 117

B. IGMP

C. TCP/IP

D. None of the given

Question No:91

(Marks:1)

Vu-Topper RM

Question No:92

(Marks:1)

Vu-Topper RM

IPV6 address with _____ leading zeros is interpreted to hold an IPV4 address.

A. 96

Page 114

B. 100

C. 120

D. None of the given

Question No:93

(Marks:1)

Vu-Topper RM

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

A. Size

B. MTU

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- C. IP header
- D. None of the given

Question No:94 (Marks:1) **Vu-Topper RM**

IPv6 _____ is responsible for fragmentation. Routers simply drop datagram's larger than network

A. Source **Page 113**

- B. Medium
- C. Destination
- D. Intermediate routers

Question No:95 (Marks:1) **Vu-Topper RM**

Question No:96 (Marks:1) **Vu-Topper RM**

The Network Layer Protocol ICMP stands for _____

- A. Initial Control Message Protocol
- B. Instant Control Message Protocol

C. Internet Control Message Protocol **Page 115**

- D. None of the given

Question No:97 (Marks:1) **Vu-Topper RM**

Question No:98 (Marks:1) **Vu-Topper RM**

_____field tells the receiver how to order fragments within a given datagram

- A. FLAGS
- B. IDENTIFICATION

C. FRAGMENT OFFSET **Page 375**

- D. None of the given

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Question No:99

(Marks:1)

Vu-Topper RM

_____ Source is responsible for fragmentation.

A. IPV2

B. IPV4

C. IPV6

Page 103

D. IPV8

Question No:100

(Marks:1)

Vu-Topper RM

Question No:101

(Marks:1)

Vu-Topper RM

In IPV6 the 128 bit addresses unwidely in dotted decimal;requires _____ numbers.

A. 12

B. 14

C. 16

Page 114

D. None of the given

Question No:102

(Marks:1)

Vu-Topper RM

Question No:103

(Marks:1)

Vu-Topper RM

IPV6 128 bits address includes network prefix and _____

A. Host Suffix

Page 114

B. Host prefix

C. Source Prefix

D. None of the given

Question No:104

(Marks:1)

Vu-Topper RM

Address mask defines how many bits of address are in suffix?

True

False

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Question No:105

(Marks:1)

Vu-Topper RM

Like most application programs, a client and server use a transport protocol to communicate.

True

Page 146

False

Question No:106

(Marks:1)

Vu-Topper RM

A single networking technology is best for all needs

True

False

Page 81

Question No:107

(Marks:1)

Vu-Topper RM

Mapping between a protocol address and a hardware address is called Address Resolution.

True

Page 93

False

Question No:108

(Marks:1)

Vu-Topper RM

Although message exchange can be used to bind addresses, sending a request for each binding is hopelessly inefficient.

True

Page 99

False

Question No:109

(Marks:1)

Vu-Topper RM

A computer attached to a given network can only communicate with other computers attached to the same network. Is this a problem with multiple networks?

True

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False

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Question No:110

(Marks:1)

Vu-Topper RM

Question No:111

(Marks:1)

Vu-Topper RM

UDP offers application programs a Message-Oriented Interface, applications can depend on protocol to preserve data boundaries.

True **Page 120**

False

Question No:112

(Marks:1)

Vu-Topper RM

Question No:113

(Marks:1)

Vu-Topper RM

Question No:114

(Marks:1)

Vu-Topper RM

Question No:115

(Marks:1)

Vu-Topper RM

ICMP message transport is acted upon by getting ICMP Encapsulated in IP.

True **Page 117**

False

Question No:116

(Marks:1)

Vu-Topper RM

HEADER LEN field gives size of extension header.

True **Page 112**

False

Question No:117

(Marks:1)

Vu-Topper RM

Postfix defines how much of address used to identify network.

Ture

False **Page 103**

Question No:118

(Marks:1)

Vu-Topper RM

The process of learning the path MTU is known as path MTU discovery.

True **Page 114**

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False

Question No:119

(Marks:1)

Vu-Topper RM

A is a special purpose system dedicated to the task of interconnecting networks

Bridge

Router **Page 82**

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