

Quiz03

Due Mar 22 at 11:59pm**Points** 25**Questions** 25**Available** until Mar 22 at 11:59pm**Time Limit** 360 Minutes**Allowed Attempts** 2

Instructions

Contains questions from Chapter 4 and some portion of Chapter 5.

1. While dealing with multiple choice questions, please read all the alternatives before choosing one alternative. Go for the **best** alternative.
2. Please read the instructions carefully. If an instruction is asking you to enter the response in certain way, don't violate it in your best interest. Violating such instructions could entail unnecessarily deducted points.
3. Please do not violate the instructions. Manual grading of these supposedly auto graded assignments needs extra time and effort, apart from defeating the purpose.
4. Wherever you see the ^ symbol being used, please assume it to be indicating exponentiation that separates a base from its exponent and read it as 'raised to the power of'.

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Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	16 minutes	23 out of 25

Score for this attempt: **23** out of 25

Submitted Mar 22 at 8:45pm

This attempt took 16 minutes.

Question 1

1 / 1 pts

Packetizing at the network layer involves ____ .

Correct!

- ☒ All of the choices are correct

- ☐ adding a header that contains the source and destination information
- ☐ decapsulating the payload at the destination
- ☐ encapsulating the payload at the source

Question 2**1 / 1 pts**

The performance of a network can be measured in terms of _____

- ☐ throughput
- ☐ delay
- ☐ packet loss
- ☒ all of the choices are correct

Correct!**Question 3****1 / 1 pts**

An HLEN value of decimal 10 means _____

- ☒ there are 40 bytes in the header
- ☐ there are 10 bytes in the header
- ☐ there are 40 bytes of options
- ☐ there are 10 bytes of options

Correct!

Question 4**1 / 1 pts**

What is needed to determine the number of the last byte of a fragment?

- ☐ offset number
- ☒ both offset number and the total length
- ☐ None of the choices are correct
- ☐ total length

Correct!**Question 5****1 / 1 pts**

When a datagram is encapsulated in a frame, the total size of the datagram must be less than the ____ .

- ☐ MUT
- ☐ MAT
- ☐ None of the choices are correct
- ☒ MTU

Correct!**Question 6****1 / 1 pts**

What is the default prefix length for class C in CIDR notation?

- ☐ 16

Correct!

- ☐ None of the choices are correct
- ☐ 8
- ☒ 24

Question 7**1 / 1 pts**

In DHCP, the client uses _____ port and the server uses _____ port.

Correct!

- ☐ None of the choices are correct
- ☐ a well-known; an ephemeral
- ☒ a well-known; a well-known
- ☐ an ephemeral; a well-known

Question 8**1 / 1 pts**

ICMP is a (an) _____ layer protocol.

Correct!

- ☐ application-layer protocol that helps TCP/IP at the network layer
- ☐ transport-layer protocol that helps TCP/IP at the network layer
- ☒ network-layer protocol.
- ☐ data-link layer protocol that helps TCP/IP at the network layer

Question 9**1 / 1 pts**

In _____, each node maintains a vector (table) of minimum distances to every node.

- ☐ link state
- ☐ path vector
- ☐ None of the choices are correct
- ☒ distance vector

Correct!**Question 10****0 / 1 pts**

In RIP, the _____ timer is used to purge invalid routes from the table.

- ☐ expiration
- ☐ garbage collection
- ☐ None of the choices are correct
- ☒ periodic

Correct Answer**You Answered****Question 11****1 / 1 pts**

The _____ protocol allows the administrator to assign a cost, called the metric, to each route.

Correct!

- ☐ BGP
- ☐ RIP
- ☒ OSPF
- ☐ None of the choices are correct

Question 12**1 / 1 pts**

_____ is an interdomain routing protocol using path vector routing.

Correct!

- ☐ RIP
- ☐ None of the choices are correct
- ☒ BGP
- ☐ OSPF

Question 13**1 / 1 pts**

The Multicast Open Shortest Path First (MOSPF) protocol is an extension of the OSPF protocol that uses multicast routing to create source-based trees. The protocol is based on _____ routing.

- ☐ path vector
- ☐ distance vector
- ☐ None of the choices are correct

Correct!

- ☒ link state

Question 14**1 / 1 pts**

_____ is an implementation of multicast distance vector routing. It is a source-based routing protocol, based on RIP.

Correct!

- ☐ None of the choices are correct

- ☒ DVMRP

- ☐ MOSPF

- ☐ CBT

Question 15**0 / 1 pts**

PIM-SM is used when the number of routers with attached members is _____ relative to the number of routers in the Internet.

You Answered

- ☒ large

Correct Answer

- ☐ small

- ☐ moderate

- ☐ None of the choices are correct

Question 16**1 / 1 pts**

In hexadecimal colon notation, a 128-bit address is divided into _____ sections, each _____ hexadecimal digits in length.

Correct!

- ☒ 8; 4
- ☐ 8; 3
- ☐ 8; 2
- ☐ None of the choices are correct

Question 17

1 / 1 pts

In IPv6, the _____ field in the base header restricts the lifetime of a datagram.

Correct!

- ☐ version
- ☐ priority
- ☒ hop limit
- ☐ None of the choices are correct

Question 18

1 / 1 pts

When two computers using IPv6 want to communicate but the packet must pass through an IPv4 region, which transition strategy should be used?

Correct!

- ☐ header translation
- ☐ either tunneling or header translation
- ☒ tunneling
- ☐ None of the choices are correct

Question 19**1 / 1 pts**

Communication at the data-link layer is _____.

Correct!

- ☒ node-to-node
- ☐ end-to-end
- ☐ process-to-process
- ☐ None of the choices are correct

Question 20**1 / 1 pts**

Which error detection method uses one's complement arithmetic?

Correct!

- ☐ CRC
- ☐ Two-dimensional parity check
- ☐ Simple parity check
- ☒ Checksum

Question 21**1 / 1 pts**

Which error detection method involves polynomials?

Correct!

- ☒ CRC
- ☐ Two-dimensional parity check
- ☐ Simple parity check
- ☐ Checksum

Question 22**1 / 1 pts**

In cyclic redundancy checking, what forms the check bits?

Correct!

- ☐ The dividend
- ☒ The remainder
- ☐ The quotient
- ☐ The divisor

Question 23**1 / 1 pts**

In CRC, if the dataword is 111111, the divisor 1010, and the remainder 110, what is the codeword at the receiver?

- ☐ 1010110

Correct!

- ☐ 110111111
- ☐ 111111011
- ☒ 111111110

Question 24**1 / 1 pts**

At the CRC generator, _____ is (are) added to the dataword after the division process to create the codeword.

Correct!

- ☐ 1s
- ☐ the divisor
- ☒ the remainder
- ☐ 0s

Question 25**1 / 1 pts**

In CRC, the quotient at the sender _____.

Correct!

- ☐ is the remainder
- ☐ becomes the divisor at the receiver
- ☒ is discarded
- ☐ becomes the dividend at the receiver

Quiz Score: **23** out of 25