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Time taken 4 mins 25 secs

Marks 22.00/25.00

Grade 88.00 out of 100.00

Question 1

Incorrect

Mark 0.00 out of 1.00

The most common binary data encoding on the Internet – at least below the application layer – is big-endian encoding.

Select one:

- True
- False ✕

Question 2

Correct

Mark 1.00 out of 1.00

What is the purpose of the preamble in an Ethernet frame?

Select one:

- a. It is used as a pad for data
- b. It identifies the source address
- c. It marks the end of timing information
- d. It is used for timing synchronization with alternating patterns of ones and zeros ✓
- e. It identifies the destination address

Your answer is correct.

Question 3

Correct

Mark 1.00 out of 1.00



Wi-Fi designers can improve throughput through a variety of techniques, including:

Select one:

- a. Improved radio modulation techniques
- b. Improved error-correcting codes
- c. Increasing the channel width
- d. Allowing multiple spatial streams via multiple antennas
- e. All of the above ✓

Your answer is correct.

Question 4

Correct

Mark 1.00 out of 1.00



What version of IP is the most common in the world?

Select one:

- a. IPv3
- b. IPng
- c. IPv5
- d. IPv6
- e. IPv4 ✓

Your answer is correct.



Question 5

Correct

Mark 1.00 out of 1.00



Which is an important characteristic of UDP?

Select one:

- a. acknowledgement of data delivery
- b. minimal delays in data delivery ✓
- c. high reliability of data delivery
- d. same order data delivery
- e. flow control

Your answer is correct.

Question 6

Correct

Mark 1.00 out of 1.00

No matter the available bandwidth, every TCP connection must go through the slow-start phase.

Select one:

- True ✓
- False

Question 7

Correct

Mark 1.00 out of 1.00

In a baseband transmission, the entire bandwidth of the cable is consumed by a single signal. In broadband transmission, signals are sent on multiple frequencies, allowing multiple signals to be sent simultaneously.

Select one:

- True ✓
- False

Question 8

Correct

Mark 1.00 out of 1.00



ARP-cache entries eventually expire and the timeout interval is on the order of:

Select one:

- a. 1 day
- b. 1 hour
- c. a few seconds
- d. from half a minute to a few minutes ✓

Your answer is correct.

Question 9

Correct

Mark 1.00 out of 1.00



The TCP Persist Timer is used to poll when the window size is zero. This timer is used by:

Select one:

- a. the sender side ✓
- b. the receiver side
- c. both the sender and the receiver sides
- d. the socket owner application

Your answer is correct.

Question 10

Correct

Mark 1.00 out of 1.00



The Routing Information Protocol (RIP) is an intra-domain routing protocol based on _____ routing

Select one:

- a. distance vector ✓
- b. link state
- c. path vector
- d. OSPF
- e. path state



Your answer is correct.

Question 11

Correct

Mark 1.00 out of 1.00



What is the primary reason for the development of IPv6? _____

Select one:

- a. security
- b. header format specification
- c. expanded addressing capabilities ✓
- d. addressing simplifications

Your answer is correct.

Question 12

Incorrect

Mark 0.00 out of 1.00



Which HTTP header is used by the server to inform the client about **how** it agrees to use the persistent connection? _____

Select one:

- a. Cache-Control
- b. Connection ✗
- c. Keep-Alive
- d. Content-Length

Your answer is incorrect.

Question 13

Correct

Mark 1.00 out of 1.00



Switches are used to connect distant LANs whereas a Router is most often used to connect individual computers. _____

Select one:

- True
- False ✓

Question 14

Correct

Mark 1.00 out of 1.00



Internet Service Providers (ISPs) always connect to one another directly via high-speed links.

Select one:

- True
- False ✓

Question 15

Correct

Mark 1.00 out of 1.00

The degeneration of a signal over distance on a network cable is called attenuation.

Select one:

- True ✓
- False

Question 16

Correct

Mark 1.00 out of 1.00

The Internet Checksum is usually better than CRC at detecting transposition errors.

Select one:

- True
- False ✓

Question 17

Correct

Mark 1.00 out of 1.00



WEP Wi-Fi encryption is still considered very strong nowadays.

Select one:

- True
- False ✓

Question 18

Correct

Mark 1.00 out of 1.00



If the IPv4 "Don't Fragment" (DF header flag) is set to 1 by the sender, then a router must not fragment the packet and must _____ instead.

Select one:

- a. forward it unchanged
- b. return it to sender
- c. truncate it
- d. drop it ✓

Your answer is correct.

Question 19

Correct

Mark 1.00 out of 1.00

UDP ports are considered a shared namespace with TCP ports. Therefore, 2 processes cannot share the same port number even if one process is using UDP and the other is using TCP.

Select one:

- True
- False ✓

Question 20

Correct

Mark 1.00 out of 1.00

Fast Ethernet introduced the concept of full-duplex Ethernet which is entirely collision-free.

Select one:

- True ✓
- False

Question 21

Correct

Mark 1.00 out of 1.00



The Border Gateway Protocol's primary goal is to provide support for choosing routes based on:

Select one:

- a. fastest link available
- b. link reliability
- c. administrative input ✓
- d. lowest cost links

Your answer is correct.

Question 22

Incorrect

Mark 0.00 out of 1.00

What OSI layer identifies the communicating applications?

Select one:

- a. Layer 1
- b. Layer 2
- c. Layer 3
- d. Layer 4
- e. Layer 5 ✗

Your answer is incorrect.

Question 23

Correct

Mark 1.00 out of 1.00

What is a possible effect of improperly applying a connector to a network cable?

Select one:

- a. Data will be forwarded to the wrong node.
- b. An improper signaling method will be implemented for data transmitted on that cable.
- c. Data transmitted through that cable may experience signal loss. ✓
- d. Data bits will get inverted.

Your answer is correct.

Question 24

Correct

Mark 1.00 out of 1.00



ATM Adaptation Layer AAL 5 uses a CRC-32 checksum and is able to detect lost ATM cells.

Select one:

True ✓

False

Question 25

Correct

Mark 1.00 out of 1.00



Manchester encoding is principally designed to

Select one:

- a. Ensure that a transition occurs in the centre of each bit period ✓
- b. Increase the bandwidth of a signal transmitted on the medium
- c. Have more than one symbol per bit period
- d. Ensure that the line remains balanced