



Time left 0:29:42

Question 1

Not yet answered

Marked out of 1.00

All Ethernet devices also agree on a broadcast address of all 1's: a packet sent to the broadcast address will be delivered to all attached hosts.

Select one:

- True
- False

Question 2

Not yet answered

Marked out of 1.00

In bridged LANs, the _____ algorithm creates a topology in which each LAN can be reached from any other LAN through one path only.

Select one:

- a. binary tree
- b. unary tree
- c. routing
- d. shortest path
- e. spanning tree

Question 3

Not yet answered

Marked out of 1.00

Bandwidth delay is more significant than propagation delay within a small LAN.

Select one:

- True
- False

Question 4

Not yet answered

Marked out of 1.00



What is the fundamental alternative to datagram stateless forwarding?

Select one:

- a. Packet switching
- b. Routing
- c. Flooding
- d. Virtual circuits

Question 5

Not yet answered

Marked out of 1.00



The Wi-Fi 5 GHz band (vs. 2.4 GHz) has increased ability to penetrate walls, often resulting in a higher effective range.

Select one:

- True
- False

Question 6

Not yet answered

Marked out of 1.00



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

Select one:

- True
- False

Question 7

Not yet answered

Marked out of 1.00



Gigabit Ethernet 1000Base-T uses the following encoding:

Select one:

- a. Manchester
- b. AMI
- c. 4B/5B
- d. PAM-5

Question 8

Not yet answered

Marked out of 1.00



What characteristic of UTP cable helps reduce the effects of interference?

Select one:

- a. the metal braiding in the shielding
- b. the reflective cladding around core
- c. the twisting of the wires in the cable
- d. the insulating material in the outer jacket
- e. the type of metal used for the wires

Question 9

Not yet answered

Marked out of 1.00

The reverse address resolution protocol (RARP) allows a host to discover its Internet address when it knows only its physical address.



Select one:

- True
- False

Question 10

Not yet answered

Marked out of 1.00

Which of the following is a characteristic of single-mode fiber-optic cable?



Select one:

- a. generally uses LEDs as the light source
- b. no longer in use
- c. uses relatively larger core with multiple light paths
- d. is cheaper than multi-mode fiber
- e. generally uses semiconductor lasers as the light source

Question 11

Not yet answered

Marked out of 1.00

At the LAN layer, traffic-engineering mechanisms are historically/generally limited.

Select one:

- True
- False

Question 12

Not yet answered

Marked 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 13

Not yet answered

Marked out of 1.00



A network cable lies in the _____ layer.

Select one:

- a. Network
- b. Transport
- c. Data Link
- d. MAC
- e. Physical

Question 14

Not yet answered

Marked out of 1.00



All else being equal, the data rate achievable with a radio signal is proportional to:



Select one:

- a. the signal power
- b. the distance to the receiver
- c. the width of the frequency band
- d. the number of sub-channels

Question 15

Not yet answered

Marked 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 16

Not yet answered

Marked out of 1.00



Ethernet switches have incorporated a switch-to-switch protocol to construct a subset of the switch-connections graph that has no loops and yet allows reachability of every host. This protocol is called:

Select one:

- a. Ethernet Learning Algorithm
- b. Multicast
- c. Spanning Tree
- d. VLAN protocol

Question 17

Not yet answered

Marked 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

Question 18

Not yet answered

Marked out of 1.00

What are the frequency bands used by Wi-Fi 802.11n
?

Select one:

- a. 5 GHz exclusively
- b. 2.4 GHz exclusively
- c. 2.4 GHz and 5 GHz
- d. None of the above

Question 19

Not yet answered

Marked out of 1.00



Which of the following is not a key element of a protocol

Select one:

- a. Syntax
- b. Entities
- c. Semantics
- d. Timing

Question 20

Not yet answered

Marked 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.