

Module 4-7 Quizzes

Due Jun 23 at 6pm

Points 10

Questions 10

Available Jun 23 at 4:50pm - Jun 23 at 6pm about 1 hour

Time Limit 20 Minutes

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	5 minutes	10 out of 10

⚠ Correct answers are hidden.

Score for this quiz: **10** out of 10

Submitted Jun 23 at 5:04pm

This attempt took 5 minutes.

Question 1

1 / 1 pts

What is the purpose of the OSI physical layer?

☐controlling access to media

☒transmitting bits across the local media

- ☐ performing error detection on received frames
- ☐ exchanging frames between nodes over physical network media

Question 2

1 / 1 pts

Which characteristic describes crosstalk?

- ☐ the distortion of the network signal from fluorescent lighting
- ☒ the distortion of the transmitted messages from signals carried in adjacent wires
- ☐ the loss of wireless signal over excessive distance from the access point
- ☐ the weakening of the network signal over long cable lengths

Question 3

1 / 1 pts

What are two characteristics of fiber-optic cable? (Choose two.)

☐ It combines the technique of cancellation, shielding, and twisting to protect data.

☒ It is not affected by EMI or RFI.

☐ It typically contains 4 pairs of fiber-optic wires.

☐ Each pair of cables is wrapped in metallic foil.

☒ It is more expensive than UTP cabling is.

Question 4

1 / 1 pts

In addition to the cable length, what two factors could interfere with the communication carried over UTP cables? (Choose two.)

☐ bandwidth

☒ electromagnetic interference

☐ size of the network

☒ crosstalk

☐ signal modulation technique

Question 5

1 / 1 pts

Which two statements describe the services provided by the data link layer? (Choose two.)

- ☒ It packages various Layer 3 PDUs into a frame format that is compatible with the network interface.
- ☐ It maintains the path between the source and destination devices during the data transmission.
- ☐ It defines the end-to-end delivery addressing scheme.
- ☐ It ensures that application data will be transmitted according to the prioritization.
- ☐ It provides reliable delivery through link establishment and flow control.
- ☒ It manages the access of frames to the network media.

Question 6

1 / 1 pts

What three items are contained in an Ethernet header and trailer? (Choose three.)

☒ error-checking information

☐ destination IP address

☐ source IP address

☒ source MAC address

☒ destination MAC address

Question 7

1 / 1 pts

What type of communication rule would best describe CSMA/CD?

☒ access method

☐ message encapsulation

☐ message encoding

☐ flow control

Question 8

1 / 1 pts

Which statement is true about the CSMA/CD access method that is used in Ethernet?

- ☒ All network devices must listen before transmitting
- ☐ A jamming signal causes only devices that caused the collision to execute a backoff algorithm.
- ☐ When a device hears a carrier signal and transmits, a collision cannot occur.
- ☐ Devices involved in a collision get priority to transmit after the backoff period.

Question 9

1 / 1 pts

What does the term “attenuation” mean in data communication?

- ☒ loss of signal strength as distance increases
- ☐ strengthening of a signal by a networking device
- ☐ time for a signal to reach its destination

- ☐ leakage of signals from one cable pair to another

Question 10

1 / 1 pts

What OSI physical layer term describes the amount of time, including delays, for data to travel from one point to another?

☐ fiber-optic cable

☐ copper cable

☒ latency

☐ air

Quiz Score: **10** out of 10