

**Started on** Friday, 23 August 2024, 9:03 AM

**State** Finished

**Completed on** Friday, 23 August 2024, 9:09 AM

**Time taken** 6 mins

**Grade** 6.00 out of 10.00 (60%)

**Question 1**

Correct

Mark 2.00 out of  
2.00

Which of the following is/are true about self-learning switches? (Select all that apply)

Select one or more:

- ☒ A. When the destination is unknown, the frame is broadcasted on all ports except the input port ✓
- ☐ B. Learns which hosts can be reached by flooding its MAC address to all hosts connected to its ports.
- ☒ C. When the destination is known, the frame is selectively sent on just that one port ✓
- ☒ D. Records the incoming port and MAC address of the sending host. ✓

Your answer is correct.

The correct answers are: Records the incoming port and MAC address of the sending host., When the destination is known, the frame is selectively sent on just that one port, When the destination is unknown, the frame is broadcasted on all ports except the input port

**Question 2**


Incorrect

Mark 0.00 out of  
2.00

S1: In CSMA/CD there is need of acknowledgement to confirm about successful transmission.

S2: In CSMA/CA there is need of acknowledgement to confirm about successful transmission.

Select one or more:

- ☐ a. S2 is correct but S1 is incorrect
- ☐ b. Both statements are correct
- ☒ c. S1 is correct but S2 is incorrect
- 
- ☐ d. Both statements are incorrect

Your answer is incorrect.

The correct answer is: S2 is correct but S1 is incorrect

**Question 3**

Incorrect

Mark 0.00 out of  
2.00

Which of the following about Spanning Tree Protocol is/are true?

Select one or more:

- ☒ A. When a network is first established, each interconnected switch declares itself the Root Bridge and broadcasts its bridge ID. ✓
- ☒ B. Any switch should stop generating configuration messages when a message is received from a switch with lower switch ID. ✓
- ☒ C. Spanning tree protocol calculates path with the best performance ✗
- ☐ D. each non-root switch can have at most 2 root ports

Your answer is incorrect.

The correct answers are: When a network is first established, each interconnected switch declares itself the Root Bridge and broadcasts its bridge ID., Any switch should stop generating configuration messages when a message is received from a switch with lower switch ID.

**Question 4**

Correct

Mark 2.00 out of  
2.00

Which of the following statements is/are true?

Select one or more:

- ☐ A. Routing is part of data plane while forwarding is part of control plane
- ☒ B. The network layer is responsible for determining the best path for data packets to travel from the source to the destination across multiple networks. ✓
- ☐ C. The network layer is responsible for end-to-end communication
- ☒ D. L2 switches can read the MAC address but cannot read the IP address of a packet. ✓

Your answer is correct.

The correct answers are: The network layer is responsible for determining the best path for data packets to travel from the source to the destination across multiple networks., L2 switches can read the MAC address but cannot read the IP address of a packet.

**Question 5**

Correct

Mark 2.00 out of  
2.00

Which of the following statements are NOT true about Ethernet? (Select all that apply)

Select one or more:

- ☒ a. Ethernet implements reliability ✓
- ☐ b. Ethernet has a limit on both the maximum and minimum size of the packet
- ☒ c. Ethernet uses CSMA/CA ✓
- ☒ d. Ethernet uses a 64-bit CRC ✓

Your answer is correct.

The correct answers are: Ethernet uses a 64-bit CRC, Ethernet uses CSMA/CA, Ethernet implements reliability

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