Started on	Tuesday, 10 September 2024, 9:03 AM
State	Finished
Completed on	Tuesday, 10 September 2024, 9:07 AM
Time taken	4 mins 14 secs
Grade	**6.00** out of 10.00 (**60**%)

Question 1

Incorrect

Mark 0.00 out of 2.00

Support that in an IP-over-ethernet network, a machine X wishes to find the MAC address of another machine Y in its subnet. Which one of the following techniques can be used for this?

Select one or more:

- ☐ a. X sends an ARP request packet with broadcast IP address in its local subnet
- ☑ b. X sends an ARP request packet to the local gateway's IP address which the finds the MAC address of Y and sends to X ✗
- ☐ c. X sends an ARP request packet to the local gateway's MAC address which the finds the MAC address of Y and sends to X
- ☐ d. X sends an ARP request packet with broadcast MAC address in its local subnet

The correct answer is: X sends an ARP request packet with broadcast MAC address in its local subnet

Question 2

Partially correct

Mark 1.00 out of 2.00

Which of the following statements ARE correct?

Select one or more:

☐ a. IPv6 address is flashed into the ROM of the NIC

☑ b. IPv6 is backward compatible with IPv4 ✗

☑ c. IPv6 uses a 128-bit IP address ✓

☑ d. It is possible to have an IPv4 and IPv6 address simultaneously ✓

The correct answers are: It is possible to have an IPv4 and IPv6 address simultaneously, IPv6 uses a 128-bit IP address

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Question 3

Correct

Mark 2.00 out of 2.00

0.0.0.0   255.255.255.255   127.0.0.1   8.8.8.8

Fill in the Blank. Consider a host X joining an IPv4 subnet. It sends a DHCP discover message for getting an IP address. The message has 0.0.0.0 ✓ and 255.255.255.255 ✓ as the source and destination IP address, respectively.

Question 4

Partially correct

Mark 1.00 out of 2.00

Which of the following information can be obtained from a DHCP server?

Select one or more:

☑ a. Name and IP address of DNS server ✓

☐ b. Network mask

☐ c. Network subnet

☑ d. IP address for the client ✓

The correct answers are: IP address for the client, Network subnet, Name and IP address of DNS server, Network mask

Question 5

Correct

Mark 2.00 out of 2.00

Consider the two statements:

S1: SDN decouples control and data plane

S2: The control plane in SDN is physically centralized

Select one or more:

- ☐ a. S1 is incorrect, S2 is correct
- ☐ b. Both S1 and S2 are incorrect
- ☐ c. Both S1 and S2 are correct
- ☑ d. S1 is correct, S2 is incorrect ✓

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

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