Check Test IPv6 Addressing Formats and Rules Quiz

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Teacher   ▾

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1. What is an advantage of using IPv6 ? *   1 point

- ◉ more addresses for networks and hosts
- ◯ faster connectivity
- ◯ higher bandwidth
- ◯ more frequencies

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2. What was the reason for the creation and implementation of IPv6? *   1 point

- ◯ to make reading a 32-bit address easier
- ◉ to relieve IPv4 address depletion
- ◯ to provide more address space in the Internet Names Registry
- ◯ to allow NAT support for private addressing

3. Which letter represents the hexadecimal value of the decimal number 15? *   1 point

◉ f

◯ g

◯ h

◯ b

4. A PC is configured with both an IPv4 and IPv6 address on the same network   * 1 point
adapter. What IPv4 and IPv6 coexistence strategy is implemented on the PC?

◉ Dual stack

◯ NAT64

◯ Tunneling

◯ NAT

5. What are two methods that can be used to shorten the IPv6 address notation?   * 1 point
(Choose two.)

☑ use of a double colon (::) to represent a string of all zero hextets

☑ omit all leading zeros from all hextets in the address

☐ remove all trailing zeros contained in the IPv6 address

☐ use double colons to represent a string of the same non-zero value

6. Which network migration technique encapsulates IPv6 packets inside IPv4 packets   * 1 point
to carry them over IPv4 network infrastructures?

○ encapsulation

○ translation

○ dual-stack

◉ tunneling

7. What does a double colon (::) represent in an IPv6 address notation? *   1 point

◉ a continuous string of one or more hextets that contain only zeros

○ at least eight occurrences of the same non-zero value

○ the boundary between the network portion and the host portion of the address

○ the beginning of the MAC address assigned to the IPv6 device

8. IPv6 increases the IP address size from 32 bits to how many bits? *   1 point

○ 64

○ 96

◉ 128

○ 192

○ 256

9. Which technology enables devices in an IPv6-only network to communicate with devices in an IPv4-only network?

1 point

🔘 NAT64

⊙ tunneling

⊙ DHCP

⊙ link-local addressing

10. Which IPv6 address notation is valid? *

1 point

⊙ 2001:0DB8::ABCD::1234

⊙ ABCD:160D::4GAB:FFAB

🔘 2001:DB8:0:1111::200

⊙ 2001::ABCD::

11. Which two statements are correct about IPv4 and IPv6 addresses? (Choose two.) *

1 point

☑ IPv6 addresses are represented by hexadecimal numbers.

☐ IPv4 addresses are represented by hexadecimal numbers.

☐ IPv6 addresses are 32 bits in length.

☑ IPv4 addresses are 32 bits in length.

☐ IPv4 addresses are 128 bits in length.

☐ IPv6 addresses are 64 bits in length.

Your understanding of today's class *

	1	2	3	4	5	
I didn't understand the class at all	○	○	○	○	◉	I understand the class very well

What you did not understand in today's class? (Option)

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