3/19/2020 TestOut LabSim

Exam Report: 6.7.3 Practice Questions	
Date: 3/19/2020 11:26:08 am Time Spent: 1:57	Candidate: Garsteck, Matthew Login: mGarsteck
Overall Performance	
Your Score: 0%	
	Passing Score: 80%
View results by: Objective Analysis	Individual Responses
Individual Responses	
▼ Question 1: <u>Incorrect</u>	
Which of the following are valid IPv6 a	addresses? (Select TWO.)
→ 6384:1319:7700:7631:446A:5	5511:8940:2552
141:0:0:0:15:0:0:1	
165.15.78.53.100.1	
A82:5B67:7700:AH0A:446A	:779F:FFE3:0091
343F;1EEE;ACDD;2034:1FF	'3:5012
Explanation	
omitted in each section. Therefore, 638	s listed as eight 16-bit hexadecimal sections. Leading zeros can be 44:1319:7700:7631:446A:5511:8940:2552 and 141:0:0:0:15:0:0:1 gle set of all-zero sections can be abbreviated with two colons (::). a valid way of writing that address.
	rom 0-9 and A-F. H is not a valid hexadecimal number. too short, having only six sections instead of eight.
References	
TestOut PC Pro - 6.7 IP Version 6 [e_ipv6_pp6.exam.xml Q_IPV6ADD_l	IPV6_01]
▼ Question 2: <u>Incorrect</u>	
Which of the following is a valid IPv6	address?
→ ○ FEC0::AB:9007	
○ FEC0:AB98::A7::9845:4567	
199.12.254.11	
© FEC0:9087:AB04:9900:7CA	2:7788:CEDF:249A

Explanation

FEC0:AB04:899A

FEC0::AB:9007 is a valid IPv6 address. The :: in the address replaces blocks of consecutive 0s. The longer form of this address would be FEC0:0000:0000:0000:0000:0000:00AB:9007. Leading 0s within a quartet can also be omitted. You can only omit one block of 0s using the double colon. Each number in the IPv6 address must be between 0-9 or A-F; G is not a valid number for the IPv6 address. An address without double colons should have a total of 32 hexadecimal numbers in 8 blocks.

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TestOut PC Pro - 6.7 IP Version 6 [e_ipv6_pp6.exam.xml Q_IPV6ADD_IPV6_02] **▼** Question 3: **Incorrect** Which of the following correctly describe the most common format for expressing IPv6 addresses? (Select Hexadecimal numbers

128 numbers, grouped using colons

Decimal numbers

Binary numbers

32 numbers, grouped using colons

Explanation

IP version 6 addresses are made up of 32 hexadecimal numbers organized into eight quartets. The quartets are separated by colons. An IPv6 address is a 128-bit number (128 binary digits). IP version 4 addresses use decimal numbers organized into four octets and separated by periods.

References

TestOut PC Pro - 6.7 IP Version 6 [e_ipv6_pp6.exam.xml Q_IPV6ADD_IPV6_03]

▼ Question 4: **Incorrect**

Which of the following describes an IPv6 address? (Select TWO.)

64 bit address

Four decimal octets

Eight hexadecimal quartets

128-bit address

32-bit address

Explanation

IP version 6 addresses are 128-bit addresses. They are commonly written using 32 hexadecimal numbers organized into eight quartets. Each quartet is represented as a hexadecimal number between 0 and FFFF. The quartets are separated by colons. IP version 4 addresses are 32-bit addresses. They have four octets, each octet being a binary number of eight digits. Each octet has a decimal value between 0 and 255.

References

TestOut PC Pro - 6.7 IP Version 6 [e_ipv6_pp6.exam.xml Q_IPV6ADD_IPV6_04]

▼ Question 5: **Incorrect**

Which of the following identifies the Interface ID component of an IPv6 address? (Select TWO.)

The first quartet of an IPv6 address.

The fourth quartet of an IDv6 address.

The first four quartets of an IPv6 address.

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The last quartet of an IPv6 address.	
The last 64 bits of an IPv6 address.	
The last four quartets of an IPv6 address.	
Explanation	
An IPv6 address is a 128-bit binary number that uses the first 64 bits of the address as the interface ID. The 128-bit binary number numbers that are organized further into eight quartets. The last for bits of the IPv6 address	is organized into 32 hexadecimal

<u>Incorrect</u>

bits of the IPvb address. References

TestOut PC Pro - 6.7 IP Version 6 [e_ipv6_pp6.exam.xml Q_IPV6ADD_IPV6_05]

▼ Question 6:

Which of the following identifies the prefix component of an IPv6 address? (Select TWO.)

	The first four quartets of an IPv6 address.
	The first quartet of an IPv6 address.
	The last 64 bits of an IPv6 address.
	The last four quartets of an IPv6 address.
→	The first 64 bits of an IPv6 address.
	The last quartet of an IPv6 address.

Explanation

An IPv6 address is a 128-bit binary number that uses the first 64 bits as the address prefix and the last 64 bits of the address as the interface ID. The 128-bit binary number is organized into 32 hexadecimal numbers that are organized further into eight quartets. The first four quartets correspond with the first 64 bits of the IPv6 address.

References

TestOut PC Pro - 6.7 IP Version 6 [e_ipv6_pp6.exam.xml Q_IPV6ADD_IPV6_06]

▼ Question 7:

Incorrect

The following is an example of an IPv6 address:

FEC0:1319:7700:F631:446A:5511:CC40:25AB

Which part of the example IPv6 address is the prefix?



Which quartet in the example IPv6 prefix is used to identify the subnet?



Which part of the example IPv6 address is the interface ID?



Explanation

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In this example of an IPv6 address, FEC0:1319:7700:F631:446A:5511:CC40:25AB • The prefix is $\bf FEC0:1319:7700:F631$

- The quartet used to identify the subnet is **F631** (the last quartet in the prefix).
- The interface ID is 446A:5511:CC40:25AB.

References

TestOut PC Pro - 6.7 IP Version 6 [e_ipv6_pp6.exam.xml Q_IPV6ADD_IPV6_07]

▼ Question 8:

Incorrect

Which of the following describes the part of	f the IPv6 address	that identifies th	e subnet address?

	The	first	quartet in	the	IPv6	address	prefix.
--	-----	-------	------------	-----	------	---------	---------

		The first	quartet :	in the	IPv6	address	interface	ID
--	--	-----------	-----------	--------	------	---------	-----------	----

_	Th	e last	quartet	in	the	IPv6	address	prefix
	, , , , , , ,	c rabe	quartet				addies	Premi

The last quartet in the IPv6 address interface ID.

Explanation

The part of the IPv6 address that identifies the subnet address is the last quartet in the prefix.

For example, in the following address, FEC0:1319:7700:F631:446A:5511:CC40:25AB, the quartet used to identify the subnet is **F631**.

References

TestOut PC Pro - 6.7 IP Version 6 [e_ipv6_pp6.exam.xml Q_IPV6ADD_IPV6_08]