Mang may tinh can ban_ Nhom 03

Started on	Sunday, 3 May 2020, 8:45 PM
State	Finished
Completed on	Sunday, 3 May 2020, 9:18 PM
Time taken	33 mins 8 secs
Marks	19.17/26.00
Grade	7.37 out of 10.00 (74%)

Question 1

Correct

Mark 1.00 out of 1.00

An administrator must assign static IP addresses to the servers in a network. For network 192.168.20.24/29, the router is assigned the first usable host address while the sales server is given the last usable host address. Which of the following should be entered into the IP properties box for the sales server?

Select one:

- ⦿ a. IP address: 192.168.20.30

  Subnet Mask: 255.255.255.248
  Default Gateway: 192.168.20.25

- ◯ b. IP address: 192.168.20.14
  Subnet Mask: 255.255.255.248
  Default Gateway: 192.168.20.9

- ◯ c. IP address: 192.168.20.30
  Subnet Mask: 255.255.255.240
  Default Gateway: 192.168.20.17

- ◯ d. IP address: 192.168.20.30
  Subnet Mask: 255.255.255.240
  Default Gateway: 192.168.20.25

- ◯ e. IP address: 192.168.20.254
  Subnet Mask: 255.255.255.0
  Default Gateway: 192.168.20.1

Your answer is correct.

The correct answer is: IP address: 192.168.20.30

Subnet Mask: 255.255.255.248
Default Gateway: 192.168.20.25

24 AND 248 = 24

Bước nhảy: 2^3 = 8
Network: 192.168.20.24
ĐC host cuối: 192.168.20.30
Broadcast: 192.168.20.31
Next Network = 192.168.20.32

11111000

Question 2

Correct

Mark 1.00 out of 1.00

Which two statements describe characteristics of IPv6 unicast addressing? (Choose two.)

Select one or more:

☐ a. If a global address is assigned to an interface, then that is the only allowable address for the interface

☐ b. Link-local addresses start with FE00:/12

☑ c. There is only one loopback address and it is ::1

☑ d. Global addresses start with 2000::/3

☐ e. Link-local addresses start with FF00::/10

Your answer is correct.

The correct answers are: Global addresses start with 2000::/3, There is only one loopback address and it is ::1

Question 3

Partially correct

Mark 0.50 out of 1.00

Which of the following IP addresses are valid Class B host addresses if a default Class B mask is in use? (Choose all that apply)

Select one or more: B: 128.0.0.0 -- 191.255.255.255

☐ a. 192.168.5.9

☑ b. 133.6.5.4

☐ c. 10.6.8.35

☐ d. 127.0.0.1

☐ e. 190.6.5.4

Your answer is partially correct.

You have correctly selected 1.
The correct answers are: 133.6.5.4, 190.6.5.4

Question 4

Correct

Mark 1.00 out of 1.00

You have a class C address range and are planning a network that has an average of 50 hosts per subnet.

How many host bits will have to borrowed for subnetting so that the maximun number of subnets can be implemented?

Select one:

- ○ a. 1
- ○ b. 6
- ○ c. 4
- ○ d. 3
- ⦿ e. 2

00 | 000000
subnet | host

$2^x >= 50$
--> x=6

Your answer is correct.

The correct answer is: 2

Question 5

Partially correct

Mark 0.67 out of 1.00

Which of the following addresses can be assigned to a host when using a subnet mask of 255.255.254.0? (Select three)

subnet mask AND IP --> network

Select one or more:

- ☐ a. 113.10.4.0   network
- ☑ b. 186.54.3.0
- ☐ c. 17.35.36.0
- ☑ d. 26.35.2.255
- ☐ e. 152.135.7.0
- ☑ f. 175.33.3.255

Your answer is partially correct.

You have correctly selected 2.
The correct answers are: 186.54.3.0, 26.35.2.255, 152.135.7.0

Question 6

Correct

Mark 1.00 out of 1.00

You have been assigned a network ID of 172.16.0.0/26. If you utilize the first network resulting from this ID, what should be the last legitimate host address in this subnet?

Select one:
- ◉ a. 172.16.0.62
- ○ b. 172.16.0.64
- ○ c. 172.16.0.65
- ○ d. 172.16.0.63

Your answer is correct.

The correct answer is: 172.16.0.62

Question 7

Correct

Mark 1.00 out of 1.00

What are three types of Internet Protocol version 6 (IPv6) addresses? (Choose three)

Select one or more:
- ☐ a. Broadcast
- ☑ b. Anycast
- ☐ c. Dual-cast
- ☑ d. Multicast
- ☑ e. Unicast

Your answer is correct.

The correct answers are: Unicast, Anycast, Multicast

Question 8

Correct

Mark 1.00 out of 1.00

Which IPv6 address is the equivalent of the IPv4 interface loopback address 127.0.0.1?

Select one:
- ○ a. 2000::/3
- ○ b. 0::/10
- ○ c. ::
- ◉ d. ::1

Your answer is correct.

The correct answer is: ::1

Question 9

Correct

Mark 1.00 out of 1.00

You have been asked to come up with a subnet mask that will allow all three web servers to be on the same network while providing the maximum number of subnets. Which network address and subnet mask meet this requirement?

Select one:
- ○ a. 192.168.252.0 255.255.255.252
- ○ b. 192.168.252.16 255.255.255.240
- ○ c. 192.168.252.8 255.255.255.252
- ○ d. 192.168.252.16 255.255.255.252
- ◉ e. 192.168.252.8 255.255.255.248

Your answer is correct.

The correct answer is: 192.168.252.8 255.255.255.248

Question 10

Correct

Mark 1.00 out of 1.00

How many IP addresses are available for hosts in the 192.168.16.64/26 subnet?

Select one:
- ○ a. 14   1100 0000
- ◉ b. 62
- ○ c. 126
- ○ d. 30

Your answer is correct.

The correct answer is: 62

Question 11

Correct

Mark 1.00 out of 1.00

What is the alternative notation for the IPv6 address

B514:82C3:0000:0000:0029:EC7A:0000:EC72?

Select one:

- ⊙ a. B514:82C3::0029:EC7A:0:EC72
- ○ b. B514:82C3:0029:EC7A:EC72
- ○ c. B514:82C3:0029::EC7A:0000:EC72
- ○ d. B514:82C3::0029:EC7A:EC72

Your answer is correct.

The correct answer is: B514:82C3::0029:EC7A:0:EC72

Question 12

Correct

Mark 1.00 out of 1.00

Which of the valid IP address range that can be assigned to hosts on the subnet that includes the address 172.16.4.6/23?

1_1.1111_1.11111110.00000000

Select one:

- ○ a. 172.16.4.1 - 172.16.4.254   2^9=512
- ⊙ b. 172.16.4.1 - 172.16.5.254
- ○ c. 172.16.2.1 - 172.16.4.254
- ○ d. 172.16.3.1 - 172.16.5.254

Your answer is correct.

The correct answer is: 172.16.4.1 - 172.16.5.254

Question 13

Incorrect

Mark 0.00 out of 1.00

What is the possible IP range that can be assigned to hosts on a subnet that includes the address 192.168.144.34/29?   11111000=248

Select one:

- ⊙ a. 192.168.144.32 - 192.168.144.63
- ○ b. 192.168.144.33 - 192.168.144.38
- ○ c. 192.168.144.33 - 192.168.144.48
- ○ d. 192.168.144.28 - 192.168.144.40

Your answer is incorrect.

The correct answer is: 192.168.144.33 - 192.168.144.38

Question 14

Incorrect

Mark 0.00 out of 1.00

You are a network administrator at Seibels. You must configure a new subnetwork at the Seibels branch office in Berlin. You have been provided with the subnet mask of 255.255.255.224. You want to assign IP addresses to hosts on the subnet.

Which of the following IP addresses would you use? (Choose all that apply.)

224=11100000 $2^5=32$

Select one or more:

- ☐ a. 134.178.18.56   32 --> 63
- ☐ b. 192.168.16.87   64-->95
- ☑ c. 217.168.166.192
- ☐ d. 92.11.178.93   64-->95
- ☐ e. 16.23.118.63   32-->63
- ☐ f. 87.45.16.159   128-->159

Your answer is incorrect.

The correct answers are: 92.11.178.93, 134.178.18.56, 192.168.16.87

Question 15

Correct

Mark 1.00 out of 1.00

How is an EUI-64 format interface ID created from a 48-bit MAC address?

Select one:

- ○ a. by prefixing the MAC address with 0xFF and appending 0xFF to it
- ○ b. by prefixing the MAC address with 0xFFEE
- ○ c. by appending 0xFF to the MAC address
- ○ d. by prefixing the MAC address with 0xF and inserting 0xF after each of its first three bytes
- ◉ e. by inserting 0xFFFE between the upper three bytes and the lower three bytes of the MAC address

Your answer is correct.

The correct answer is: by inserting 0xFFFE between the upper three bytes and the lower three bytes of the MAC address

Question 16	How many bits are contained in each field of an IPv6 address?
Correct	
Mark 1.00 out of 1.00	Select one: 128bits / 8 = 16 bits

Select one:

- ○ a. 8
- ○ b. 4
- ○ c. 24
- ● d. 16

Your answer is correct.

The correct answer is: 16

Question 17	A national retail chain needs to design an IP addressing scheme to support a nationwide network. The company needs a minimum of 300 sub-networks and a maximum of 50 host addresses per subnet. Working with only one Class B address, which of the following subnet masks will support an appropriate addressing scheme? (Choose two.)
Incorrect	
Mark 0.00 out of 1.00	

Select one or more:

- ☐ a. 255.255.252.0
- ☐ b. 255.255.255.224
- ☐ c. 255.255.255.128
- ☐ d. 255.255.255.192
- ☑ e. 255.255.248.0
- ☐ f. 255.255.255.0

$2^x \geq 300$
-->x=9

$2^y \geq 50$
-->y=6

11111111.11111111.11111111.10000000
255.255.255.128

11111111.11111111.11111111.11000000
255.255.255.192

Your answer is incorrect.

The correct answers are: 255.255.255.128, 255.255.255.192

Question **18**

Correct

Mark 1.00 out of 1.00

Given an IP address 172.16.28.252 with a subnet mask of 255.255.240.0, what is the correct network address?

Select one:

   ○   a. 172.16.28.0   240=11110000

   ◉   b. 172.16.16.0

   ○   c. 172.16.0.0

   ○   d. 172.16.24.0

Your answer is correct.

The correct answer is: 172.16.16.0

Question **19**

Correct

Mark 1.00 out of 1.00

Which of these represents an IPv6 link-local address?

Select one:

   ○   a. FE81::280f:512b:e14f:3d69

   ○   b. FE08::280e:611:a:f14f:3d69

   ○   c. FEFE:0345:5f1b::e14d:3d69

   ◉   d. FE80::380e:611a:e14f:3d69

Your answer is correct.

The correct answer is: FE80::380e:611a:e14f:3d69

Question 20

Correct

Mark 1.00 out of 1.00

You need to configure an IP address for workstation TestKingA. Based on the information shown above, what IP address should be assigned to this host?

Select one:

- ⦿ a. 192.168.1.145/28
- ○ b. 192.168.1.143/28
- ○ c. 192.168.1.160/28
- ○ d. 192.168.1.144/28
- ○ e. 192.168.1.159/28

Your answer is correct.

The correct answer is: 192.168.1.145/28

Question 21

Incorrect

Mark 0.00 out of 1.00

Give the following IP: 172.16.80.92/20, 172.16.32.100/20 and 172.16.65.100/20.
What are the broadcast addresses of the subnets in which these IP address belong to? (Select three options.)

(handwritten annotations in red):
172.16.80.0 --> 172.16.96.0 => 172.16.95.255
172.16.32.0   172.16.64.0
2^12=4096
4096/256=16
_._.11110000.00000000
_._.240.0

Select one or more:

- ☑ a. 172.16.64.255
- ☐ b. 172.16.95.255
- ☐ c. 172.16.79.255
- ☐ d. 172.16.32.255
- ☐ e. 172.16.82.255
- ☐ f. 172.16.47.255

Your answer is incorrect.

The correct answers are: 172.16.95.255, 172.16.47.255, 172.16.79.255

Question 22

Incorrect

Mark 0.00 out of 1.00

Assuming a subnet mask of 255.255.248.0, three of the following addresses are valid host addresses. Which are these addresses? (Choose three.)

network broadcast

248.0=11111000.00000000

$2^{11}=2048$
2048/256=8

Select one or more:

☐ a. 172.16.9.0   _._.8.0 -->_._.15.255

☑ b. 172.16.8.0

☐ c. 172.16.20.0   _._.16.0 --> _._.31.255

☐ d. 172.16.31.0

Your answer is incorrect.

The correct answers are: 172.16.9.0, 172.16.31.0, 172.16.20.0

Question 23

Correct

Mark 1.00 out of 1.00

A network administrator is planning a network installation for a large organization. The design requires 100 separate subnetworks, so the company has acquired a Class B network address.

What subnet mask will provide the 100 subnetworks required, if 500 usable host addresses are required per subnet?

Select one:

○ a. 255.255.255.192

$2^x>=100$
-->x=7

○ b. 255.255.255.0

$2^y>=500$
-->y=9

○ c. 255.255.248.0

● d. 255.255.254.0   _._.00000000.00000000

○ e. 255.255.252.0   _._.11111110.00000000

○ f. 255.255.240.0

Your answer is correct.

The correct answer is: 255.255.254.0

Question 24

Correct

Mark 1.00 out of 1.00

You are working in a data center environment and are assigned the address range 10.188.31.0/23.

You are asked to develop an IP addressing plan to allow the maximum number of subnets with as many as 30 hosts each. Which IP address range meets these requirements?

Select one:

○ a. 10.188.31.0/25   11100000

○ b. 10.188.31.0/28   2^y>=30 -->y=5

○ c. 10.188.31.0/29

◉ d. 10.188.31.0/27

○ e. 10.188.31.0/26

Your answer is correct.

The correct answer is: 10.188.31.0/27

Question 25

Incorrect

Mark 0.00 out of 1.00

A device has an address of 192.168.144.21 and a mask of 255.255.255.240.

What will be the broadcast address for the subnet to which this device is attached?

240=11110000 => 16 Ip/network

Select one:

◉ a. 192.168.144.28   16-->31

○ b. 192.168.144.31   16

○ c. 192.168.144.32

○ d. 192.168.144.23

Your answer is incorrect.

The correct answer is: 192.168.144.31

Question 26

Correct

Mark 1.00 out of 1.00

Which three are characteristics of an IPv6 anycast address? (Choose three.)

Select one or more:

☐ a. a unique IPv6 address for each device in the group

☑ b. delivery of packets to the group interface that is closest to the sending device

☐ c. any-to-many communication model

☑ d. one-to-nearest communication model

☐ e. one-to-many communication model

☑ f. the same address for multiple devices in the group

Your answer is correct.

The correct answers are: one-to-nearest communication model, the same address for multiple devices in the group, delivery of packets to the group interface that is closest to the sending device

◄ Tài liệu đọc thêm: VLSM - IPv6

Q&A - Chương 3 ►

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