

Exam Questions 200-120

CCNA Cisco Certified Network Associate CCNA (803)

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1. Refer to the exhibit.

What set of commands was configured on interface Fa0/3 to produce the given output?

A. interface FastEthernet 0/3

```
channel-group 1 mode desirable
```

```
switchport trunk encapsulation dot1q
```

```
switchport mode trunk
```

B. interface FastEthernet 0/3

```
channel-group 2 mode passive
```

```
switchport trunk encapsulation dot1q
```

```
switchport mode trunk
```

C. interface FastEthernet 0/3

```
channel-group 2 mode active
```

```
switchport trunk encapsulation dot1q
```

```
switchport mode trunk
```

D. interface FastEthernet 0/3

```
channel-group 2 mode on
```

```
switchport trunk encapsulation dot1q
```

```
switchport mode trunk
```

Answer: B

2. What parameter can be different on ports within an EtherChannel?

A. speed

B. DTP negotiation settings

C. trunk encapsulation

D. duplex

Answer: B

3. Three switches are connected to one another via trunk ports. Assuming the default switch configuration, which switch is elected as the root bridge for the spanning-tree instance of VLAN 1?

A. the switch with the highest MAC address

B. the switch with the lowest MAC address

C. the switch with the highest IP address

D. the switch with the lowest IP address

Answer: B

4. Refer to the exhibit.

The output that is shown is generated at a switch. Which three statements are true? (Choose three.)

- A. All ports will be in a state of discarding, learning, or forwarding.
- B. Thirty VLANs have been configured on this switch.
- C. The bridge priority is lower than the default value for spanning tree.
- D. All interfaces that are shown are on shared media.
- E. All designated ports are in a forwarding state.
- F. This switch must be the root bridge for all VLANs on this switch.

Answer: A,C,E

5. Refer to the exhibit.

Given this output for SwitchC, what should the network administrator's next action be?

- A. Check the trunk encapsulation mode for SwitchC's fa0/1 port.
- B. Check the duplex mode for SwitchC's fa0/1 port.
- C. Check the duplex mode for SwitchA's fa0/2 port.
- D. Check the trunk encapsulation mode for SwitchA's fa0/2 port.

Answer: C

- 6. Refer to the exhibit.

Which switch provides the spanning-tree designated port role for the network segment that services the printers?

- A. Switch1
- B. Switch2
- C. Switch3
- D. Switch4

Answer: C

7. Which two of these are characteristics of the 802.1Q protocol? (Choose two.)

- A. It is used exclusively for tagging VLAN frames and does not address network reconvergence following switched network topology changes.
- B. It modifies the 802.3 frame header, and thus requires that the FCS be recomputed.
- C. It is a Layer 2 messaging protocol which maintains VLAN configurations across networks.
- D. It includes an 8-bit field which specifies the priority of a frame.
- E. It is a trunking protocol capable of carrying untagged frames.

Answer: B,E

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

- A. 172.16.16.0
- B. 172.16.0.0
- C. 172.16.24.0
- D. 172.16.28.0

Answer: A

9. Which command enables IPv6 forwarding on a Cisco router?

- A. ipv6 local
- B. ipv6 host
- C. ipv6 unicast-routing
- D. ipv6 neighbor

Answer: C

10. What will happen if a private IP address is assigned to a public interface connected to an ISP?

- A. Addresses in a private range will be not be routed on the Internet backbone.
- B. Only the ISP router will have the capability to access the public network.
- C. The NAT process will be used to translate this address to a valid IP address.
- D. A conflict of IP addresses happens, because other public routers can use the same range.

Answer: A

11. 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?

A. IP address: 192.168.20.14
Subnet Mask: 255.255.255.248
Default Gateway: 192.168.20.9

B. IP address: 192.168.20.254
Subnet Mask: 255.255.255.0
Default Gateway: 192.168.20.1

C. IP address: 192.168.20.30
Subnet Mask: 255.255.255.248
Default Gateway: 192.168.20.25

D. IP address: 192.168.20.30
Subnet Mask: 255.255.255.240
Default Gateway: 192.168.20.17

E. IP address: 192.168.20.30
Subnet Mask: 255.255.255.240
Default Gateway: 192.168.20.25

Answer: C

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

- A. by appending 0xFF to the MAC address
- B. by prefixing the MAC address with 0xFFEE
- C. by prefixing the MAC address with 0xFF and appending 0xFF to it
- D. by inserting 0xFFFFE between the upper three bytes and the lower three bytes of the MAC address
- E. by prefixing the MAC address with 0xF and inserting 0xF after each of its first three bytes

Answer: D

13. Which subnet mask would be appropriate for a network address range to be subnetted for up to eight LANs, with each LAN containing 5 to 26 hosts?

- A. 0.0.0.240
- B. 255.255.255.252

- C. 255.255.255.0
- D. 255.255.255.224
- E. 255.255.255.240

Answer: D

14. Which option is a valid IPv6 address?

- A. 2001:0000:130F::099a::12a
- B. 2002:7654:A1AD:61:81AF:CCC1
- C. FEC0:ABCD:WXYZ:0067::2A4
- D. 2004:1:25A4:886F::1

Answer: D

15. Which command can you use to manually assign a static IPv6 address to a router interface?

- A. ipv6 autoconfig 2001:db8:2222:7272::72/64
- B. ipv6 address 2001:db8:2222:7272::72/64
- C. ipv6 address PREFIX_1 ::1/64
- D. ipv6 autoconfig

Answer: B

16. Which two of these statements are true of IPv6 address representation? (Choose two.)

- A. There are four types of IPv6 addresses: unicast, multicast, anycast, and broadcast.
- B. A single interface may be assigned multiple IPv6 addresses of any type.
- C. Every IPv6 interface contains at least one loopback address.
- D. The first 64 bits represent the dynamically created interface ID.
- E. Leading zeros in an IPv6 16 bit hexadecimal field are mandatory.

Answer: B,C

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

- A. ::1
- B. ::
- C. 2000::/3
- D. 0::/10

Answer: A

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

- A. Global addresses start with 2000::/3.
- B. Link-local addresses start with FE00:/12.
- C. Link-local addresses start with FF00::/10.
- D. There is only one loopback address and it is ::1.
- E. If a global address is assigned to an interface, then that is the only allowable address for the interface.

Answer: A,D

19. The network administrator needs to address seven LANs. RIP version 1 is the only routing protocol in use on the network and subnet 0 is not being used. What is the maximum number of usable IP addresses that can be supported on each LAN if the organization is using one class C address block?

- A. 8

- B. 6
- C. 30
- D. 32
- E. 14
- F. 16

Answer: C

20. Which of these represents an IPv6 link-local address?

- A. FE80::380e:611a:e14f:3d69
- B. FE81::280f:512b:e14f:3d69
- C. FEFE:0345:5f1b::e14d:3d69
- D. FE08::280e:611a:f14f:3d69

Answer: A

21. 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?

- A. 192.168.252.0 255.255.255.252
- B. 192.168.252.8 255.255.255.248
- C. 192.168.252.8 255.255.255.252
- D. 192.168.252.16 255.255.255.240
- E. 192.168.252.16 255.255.255.252

Answer: B

22. The network administrator has been asked to give reasons for moving from IPv4 to IPv6. What are two valid reasons for adopting IPv6 over IPv4? (Choose two.)

- A. no broadcast
- B. change of source address in the IPv6 header
- C. change of destination address in the IPv6 header
- D. Telnet access does not require a password
- E. autoconfiguration
- F. NAT

Answer: A,E

23. Which two benefits are provided by using a hierarchical addressing network addressing scheme? (Choose two.)

- A. reduces routing table entries
- B. auto-negotiation of media rates
- C. efficient utilization of MAC addresses
- D. dedicated communications between devices
- E. ease of management and troubleshooting

Answer: A,E

24. Which two are features of IPv6? (Choose two.)

- A. anycast
- B. broadcast
- C. multicast

D. podcast

E. allcast

Answer: A,C

25. Refer to the diagram.

All hosts have connectivity with one another. Which statements describe the addressing scheme that is in use in the network? (Choose three.)

- A. The subnet mask in use is 255.255.255.192.
- B. The subnet mask in use is 255.255.255.128.
- C. The IP address 172.16.1.25 can be assigned to hosts in VLAN1
- D. The IP address 172.16.1.205 can be assigned to hosts in VLAN1
- E. The LAN interface of the router is configured with one IP address.
- F. The LAN interface of the router is configured with multiple IP addresses.

Answer: B,C,F

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