QUESTIONS & ANSWERS

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Cisco

200-301

Cisco Certified Network Associate - CCNA 2022

Question: 812

Refer to the exhibit.

```
Router#
Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge
             S -Switch, H - Host, I - IGMP, r - Repeater, P - Phone,
             D - Remote, C - CVTA, M - Two-port Mac Relay

Device ID    Local Interface Holdtime Capability   Platform    Port ID
10.1.1.2     Gig 37/3      176              R I     CPT 600     Gig 36/41
10.1.1.2     Gig 37/1      174              R I     CPT 600     Gig 36/43
10.1.1.2     Gig 36/41     134              R I     CPT 600     Gig 37/3
10.1.1.2     Gig 36/43     134              R I     CPT 600     Gig 37/1
10.1.1.2     Ten 3/2       132              R I     CPT 600     Ten 4/2
10.1.1.2     Ten 4/2       174              R I     CPT 600     Ten 3/2
```

Which command provides this output?
A. show ip route
B. show cdp neighbor
C. show ip interface
D. show interface

Answer: B

Question: 813

Refer to the exhibit.

```
SW1#sh lacp neighbor
Flags:  S - Device is requesting Slow LACPDUs
        F - Device is requesting Fast LACPDUs
        A - Device is in Active mode      P - Device is in Passive mode

Channel group 35 neighbors

Partner's information:

                  LACP port                        Admin Oper  Port    Port
Port   Flags  Priority   Dev ID          Age  key   Key   Number  State
Et1/0  SP     32768      aabb.cc80.7000  8s   0x0   0x23  0x101   0x3C
Et1/1  SP     32768      aabb.cc80.7000  8s   0x0   0x23  0x102   0x3C
```

Based on the LACP neighbor status, in which mode is the SW1 port channel configured?
A. mode on
B. active
C. passive
D. auto

Answer: B

Question: 814

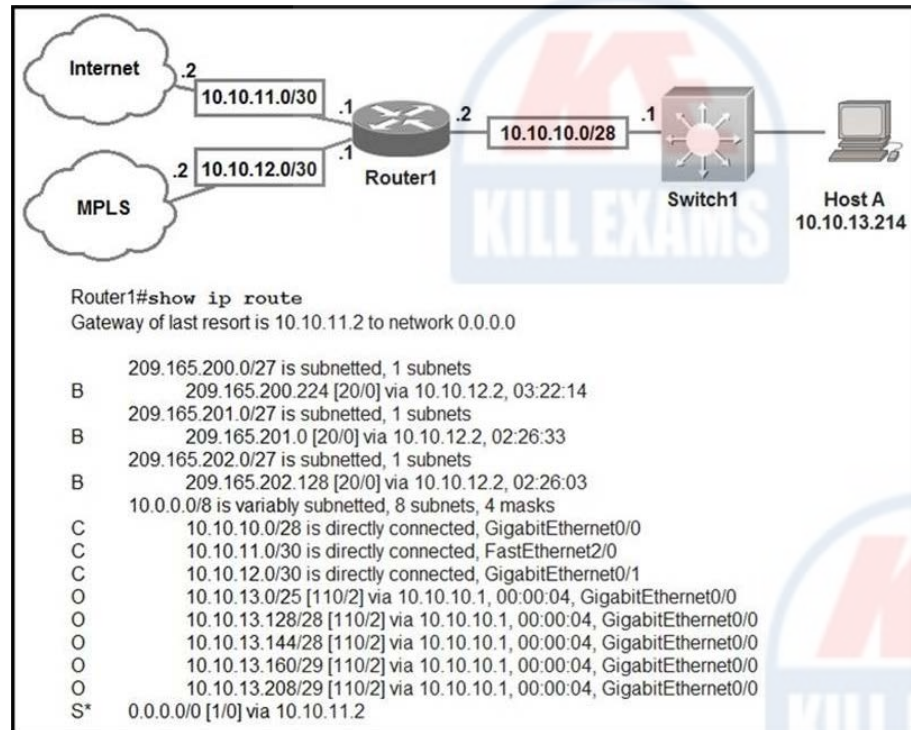A frame that enters a switch fails the Frame Check Sequence.

Which two interface counters are incremented? (Choose two.)
A. input errors
B. frame
C. giants
D. CRC
E. runts

Answer: AD

Question: 815

Refer to the exhibit.


```
Router1#show ip route
Gateway of last resort is 10.10.11.2 to network 0.0.0.0

        209.165.200.0/27 is subnetted, 1 subnets
B           209.165.200.224 [20/0] via 10.10.12.2, 03:22:14
        209.165.201.0/27 is subnetted, 1 subnets
B           209.165.201.0 [20/0] via 10.10.12.2, 02:26:33
        209.165.202.0/27 is subnetted, 1 subnets
B           209.165.202.128 [20/0] via 10.10.12.2, 02:26:03
        10.0.0.0/8 is variably subnetted, 8 subnets, 4 masks
C           10.10.10.0/28 is directly connected, GigabitEthernet0/0
C           10.10.11.0/30 is directly connected, FastEthernet2/0
C           10.10.12.0/30 is directly connected, GigabitEthernet0/1
O           10.10.13.0/25 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O           10.10.13.128/28 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O           10.10.13.144/28 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O           10.10.13.160/29 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
O           10.10.13.208/29 [110/2] via 10.10.10.1, 00:00:04, GigabitEthernet0/0
S*      0.0.0.0/0 [1/0] via 10.10.11.2
```
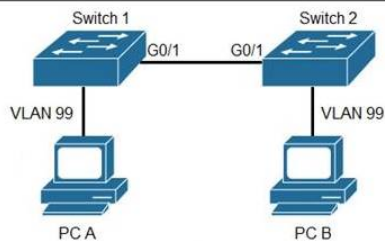
Which prefix does Router1 use to Host A?
A. 10.10.10.0/28
B. 10.10.13.0/25
C. 10.10.13.144/28
D. 10.10.13.208/29

Answer: D

Question: 816

Refer to the exhibit.

Switch 1:
```
Name: Gi0/1
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Administrative Native VLAN tagging: enabled
Voice VLAN: none
[output omitted]
Trunking VLANs Enabled: 50-100
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
```

Switch 2:
```
Name: Gi0/1
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 99 (VLAN0099)
Administrative Native VLAN tagging: enabled
Voice VLAN: none
[output omitted]
Trunking VLANs Enabled: 50-100
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
```

After the switch configuration, the ping test fails between PC A and PC B.

Based on the output for switch 1, which error must be corrected?
A. The PCs are in the incorrect VLA
C. All VLANs are not enabled on the trunk.
D. Access mode is configured on the switch ports.
E. There is a native VLAN mismatch.

Answer: D

Question: 817

In which way does a spine-and-leaf architecture allow for scalability in a network when additional access ports are required?
A. A spine switch and a leaf switch can be added with redundant connections between them.
B. A spine switch can be added with at least 40 GB uplinks.
C. A leaf switch can be added with connections to every spine switch.
D. A leaf switch can be added with a single connection to a core spine switch.

Answer: C

Question: 818

Refer to the exhibit.

```
Router(config)#interface GigabitEthernet 1/0/1
Router(config-if)#ip address 192.168.16.143 255.255.255.240
Bad mask /28 for address 192.168.16.143
```

Which statement explains the configuration error message that is received?
A. It belongs to a private IP address range.
B. The router does not support /28 mask.
C. It is a network IP address.
D. It is a broadcast IP address.

Answer: D

Question: 819

Which statement identifies the functionality of virtual machines?
A. The hypervisor communicates on Layer 3 without the need for additional resources.
B. Each hypervisor can support a single virtual machine and a single software switch.
C. The hypervisor can virtual physical components including CPU, memory, and storage.
D. Virtualized servers run most efficiently when they are physically connected to a switch that is separate from the hypervisor.

Answer: C

Question: 820

Refer to the exhibit.

```
SW2
vtp domain cisco
vtp mode transparent
vtp password ciscotest
interface fastethernet0/1
    description connection to sw1
    switchport mode trunk
    switchport trunk encapsulation dot1q
```

How does SW2 interact with other switches in this VTP domain?
A. It transmits and processes VTP updates from any VTP clients on the network on its trunk ports.
B. It processes VTP updates from any VTP clients on the network on its access ports.
C. It receives updates from all VTP servers and forwards all locally configured VLANs out all trunk ports.
D. It forwards only the VTP advertisements that it receives on its trunk ports.

Answer: D

Explanation:

Reference: https://www.cisco.com/c/en/us/support/docs/lan-switching/vtp/10558-21.html

Question: 821

Which network allows devices to communicate without the need to access the Internet?
A. 172.9.0.0/16
B. 172.28.0.0/16
C. 192.0.0.0/8
D. 209.165.201.0/24

Answer: B

Question: 822

Which two values or settings must be entered when configuring a new WLAN in the Cisco Wireless LAN Controller GUI? (Choose two.)
A. QoS settings
B. IP address of one or more access points
C. SSID

D. profile name
E. management interface settings

Answer: CD

Question: 823

Which statement about Link Aggregation when implementing on a Cisco Wireless LAN Controller is true?
A. The EtherChannel must be configured in "mode active"
B. When enabled, the WLC bandwidth drops to 500 Mbps.
C. To pass client traffic, two or more ports must be configured.
D. One functional physical port is needed to pass client traffic.

Answer: D

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-2/config-guide/b_cg82/ b_cg82_chapter_010101011.html

Question: 824

Two switches are connected and using Cisco Dynamic Trunking Protocol. SW1 is set to Dynamic Auto and SW2 is set to Dynamic Desirable.

What is the result of this configuration?
A. The link becomes an access port.
B. The link is in an error disabled state.
C. The link is in a down state.
D. The link becomes a trunk port.

Answer: D

Question: 825

Which IPv6 address type communication between subnets and cannot route on the Internet?
A. link-local
B. unique local
C. multicast
D. global unicast

Answer: B

Question: 826

Which mode must be used to configure EtherChannel between two switches without using a negotiation protocol?
A. active
B. on
C. auto
D. desirable

Answer: B

Question: 827

What is the default behavior of a Layer 2 switch when a frame with an unknown destination MAC address is received?
A. The Layer 2 switch forwards the packet and adds the destination MAC address to its MAC address table.
B. The Layer 2 switch sends a copy of a packet to CPU for destination MAC address learning.
C. The Layer 2 switch floods packets to all ports except the receiving port in the given VLA
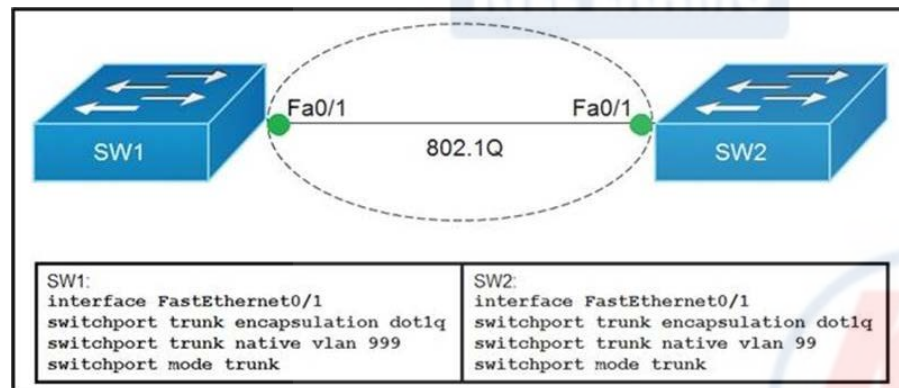E. The Layer 2 switch drops the received frame.

Answer: C

Question: 828

Which result occurs when PortFast is enabled on an interface that is connected to another switch?
A. Root port choice and spanning tree recalculation are accelerated when a switch link goes down.
B. After spanning tree converges, PortFast shuts down any port that receives BPDUs.
C. VTP is allowed to propagate VLAN configuration information from switch to switch automatically.
D. Spanning tree may fail to detect a switching loop in the network that causes broadcast storms.

Answer: D

Question: 829

Refer to the exhibit.


```
SW1:                                    SW2:
interface FastEthernet0/1               interface FastEthernet0/1
switchport trunk encapsulation dot1q    switchport trunk encapsulation dot1q
switchport trunk native vlan 999        switchport trunk native vlan 99
switchport mode trunk                   switchport mode trunk
```

Which action do the switches take on the trunk link?
A. The trunk does not form, and the ports go into an err-disabled status.
B. The trunk forms, but the mismatched native VLANs are merged into a single broadcast domain.
C. The trunk forms, but VLAN 99 and VLAN 999 are in a shutdown state.
D. The trunk does not form, but VLAN 99 and VLAN 999 are allowed to traverse the link.

Answer: B

Question: 830

What is the primary effect of the spanning-tree portfast command?
A. It immediately enables the port in the listening state.
B. It immediately puts the port into the forwarding state when the switch is reloaded.
C. It enabled BPDU messages.
D. It minimizes spanning-tree convergence time.

Answer: D

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3560/software/release/12-2_55_se/ configuration/guide/3560_scg/swstpopt.html

Question: 831

Which QoS Profile is selected in the GUI when configuring a voice over WLAN deployment?
A. Platinum
B. Bronze
C. Gold
D. Silver

Answer: A

Explanation:

Reference: https://www.cisco.com/c/en/us/support/docs/wireless-mobility/wireless-lan-wlan/81831-qoswlc-lap.html

Question: 832

An engineer must configure a /30 subnet between two routes.

Which usable IP address and subnet mask combination meets this criteria?
A. interface e0/0description to HQ-A370:98968ip address 10.2.1.3 255.255.255.252
B. interface e0/0description to HQ-A370:98968ip address 192.168.1.1 255.255.255.248
C. interface e0/0description to HQ-A370:98968ip address 172.16.1.4 255.255.255.248
D. interface e0/0description to HQ-A370:98968ip address 209.165.201.2 225.255.255.252

Answer: D