Cisco

400-101

CCIE R&S Written

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Question: 1207

Refer to the exhibit. For which reason could a BGP-speaking device in autonomous system 65534 be prevented from installing the given route in its BGP table?

A. The AS number of the BGP is specified in the given AS_PATH.
B. The origin of the given route is unknown.
C. BGP is designed only for publicly routed addresses.
D. The AS_PATH for the specified prefix exceeds the maximum number of ASs allowed.
E. BGP does not allow the AS number 65535.

Answer: A

Question: 1208

Refer to the exhibit. R3 prefers the path through R1 to reach host 10.1.1.1. Which option describes the reason for this behavior?

A. The OSPF reference bandwidth is too small to account for the higher speed links through R2.
B. The default OSPF cost through R1 is less than the cost through R2.
C. The default OSPF cost through R1 is more than the cost through R2.
D. The link between R2 and R1 is congested.

Answer: A

Question: 1209

Refer to the exhibit. Routers R1, R2, and R3 are configured as shown, and traffic from R2 fails to reach 172.29.168.3. Which action can you take to correct the problem?
A. Correct the static route on R1.
B. Correct the default route on R2.
C. Edit the EIGRP configuration of R3 to enable auto-summary.
D. Correct the network statement for 172.29.168.3 on R3.

Answer: A

Question: 1210

Refer to the exhibit. Which statement describes the effect on the network if FastEthernet0/1 goes down temporarily?

A. FastEthernet0/2 forwards traffic only until FastEthernet0/1 comes back up.
B. FastEthernet0/2 stops forwarding traffic until FastEthernet0/1 comes back up.
C. FastEthernet0/2 forwards traffic indefinitely.
D. FastEthernet0/1 goes into standby.
Question: 1211

Refer to the exhibit. If a port is configured as shown and receives an untagged frame, of which VLAN will the untagged frame be a member?

A. VLAN 1  
B. VLAN 2  
C. VLAN 3  
D. VLAN 4

Answer: C

Question: 1212

Refer to the exhibit. Which three statements about the output are true? (Choose three.)

A. An mrouter port can be learned by receiving a PIM hello packet from a multicast router.
B. This switch is configured as a multicast router.
C. GI2/0/1 is a trunk link that connects to a multicast router.
D. An mrouter port is learned when a multicast data stream is received on that port from a multicast router.
E. This switch is not configured as a multicast router. It is configured only for IGMP snooping.
F. IGMP reports are received only on GI2/0/1 and are never transmitted out GI2/0/1 for VLANs 10 and 20.

Answer: B

Question: 1212

Refer to the exhibit. Which three statements about the output are true? (Choose three.)

A. An mrouter port can be learned by receiving a PIM hello packet from a multicast router.
B. This switch is configured as a multicast router.
C. GI2/0/1 is a trunk link that connects to a multicast router.
D. An mrouter port is learned when a multicast data stream is received on that port from a multicast router.
E. This switch is not configured as a multicast router. It is configured only for IGMP snooping.
F. IGMP reports are received only on GI2/0/1 and are never transmitted out GI2/0/1 for VLANs 10 and 20.

Answer: B
Refer to the exhibit. While troubleshooting high CPU utilization on one of your Cisco Catalyst switches, you find that the issue is due to excessive flooding that is caused by STP. What can you do to prevent this issue from happening again?

A. Disable STP completely on the switch.
B. Change the STP version to RSTP.
C. Configure PortFast on port-channel 1.
D. Configure UplinkFast on the switch.
E. Configure PortFast on interface Gi0/15.

**Answer:** E

Question: 1214

Refer to the exhibit. All switches have default bridge priorities, and originate BPDUs with MAC addresses as indicated. The numbers shown are STP link metrics. Which two ports are forwarding traffic after STP converges? (Choose two.)

```
switch#show spanning-tree detail
MSTP is executing the mstp compatible Spanning Tree protocol
Bridge Identifier has priority 32768, sysid 0, address 00c4.001f.2b80
Configured hello time 2, max age 20, forward delay 15, transmit hold-count 6
Current root has priority 32768, address 0019.07aa.8ac9
Root port is 56 (Port-channel1), cost of root path is 0
Topology change flag not set, detected flag not set
Number of topology changes 296 last change occurred 00:01:17 ago
   from GigabitEthernet/18
```

A. Disable STP completely on the switch.
B. Change the STP version to RSTP.
C. Configure PortFast on port-channel 1.
D. Configure UplinkFast on the switch.
E. Configure PortFast on interface Gi0/15.

**Answer:** 

**Question: 1214**

Refer to the exhibit. All switches have default bridge priorities, and originate BPDUs with MAC addresses as indicated. The numbers shown are STP link metrics. Which two ports are forwarding traffic after STP converges? (Choose two.)
Question: 1215

Refer to the exhibit. While troubleshooting high CPU utilization of a Cisco Catalyst 4500 Series Switch, you notice the error message that is shown in the exhibit in the log file. What can be the cause of this issue, and how can it be prevented?

Answer: C

Question: 1216

A. The hardware routing table is full. Redistribute from BGP into IGP.
B. The software routing table is full. Redistribute from BGP into IGP.
C. The hardware routing table is full. Reduce the number of routes in the routing table.
D. The software routing table is full. Reduce the number of routes in the routing table.

Answer: C
Refer to the exhibit. Which action will solve the error state of this interface when connecting a host behind a Cisco IP phone?

A. Configure dot1x-port control auto on this interface
B. Enable errdisable recovery for security violation errors
C. Enable port security on this interface
D. Configure multidomain authentication on this interface

Answer: D

Question: 1217

Which type of port would have root guard enabled on it?
A. A root port
B. An alternate port
C. A blocked port
D. A designated port

Answer: D

Question: 1218

Which two options are reasons for TCP starvation? (Choose two.)
A. The use of tail drop
B. The use of WRED
C. Mixing TCP and UDP traffic in the same traffic class
D. The use of TCP congestion control

Answer: C,D
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