Cisco Exam Questions 640-878

SPNGN2 Building Cisco Service Provider Next-Generation Networks, Part 2
NEW QUESTION 1
Refer to the two show output examples below. The switch with the e8ba.70b.57180 MAC address is the root bridge for which VLAN or VLANs?

S78#show spanning-tree

MST0
Spanning tree enabled protocol mstp
Root ID Priority 32768
Address e8ba.70b.56c00
Cost 0
Port 23 (FastEthernet0/21)
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority 32768 (priority 32768 sys-id-ext 0)
Address e8ba.70e.1d980
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

<table>
<thead>
<tr>
<th>Interface</th>
<th>Role</th>
<th>Sts</th>
<th>Cost</th>
<th>Prio.Nbr Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fa0/1</td>
<td>Desg</td>
<td>FWD</td>
<td>20000</td>
<td>128.3 P2p</td>
</tr>
<tr>
<td>Fa0/2</td>
<td>Desg</td>
<td>FWD</td>
<td>20000</td>
<td>128.4 P2p</td>
</tr>
<tr>
<td>Fa0/21</td>
<td>Root</td>
<td>FWD</td>
<td>20000</td>
<td>128.23 P2p</td>
</tr>
<tr>
<td>Fa0/23</td>
<td>Attn</td>
<td>BLK</td>
<td>20000</td>
<td>128.25 P2p</td>
</tr>
</tbody>
</table>

MST1
Spanning tree enabled protocol mstp
Root ID Priority 24577
Address e8ba.70b.56c00
Cost 200000
Port 23 (FastEthernet0/21)
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority 32769 (priority 32768 sys-id-ext 1)
Address e8ba.70e.1d980
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

<table>
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<td>Attn</td>
<td>BLK</td>
<td>20000</td>
<td>128.25 P2p</td>
</tr>
</tbody>
</table>

MST2
Spanning tree enabled protocol mstp
Root ID Priority 24578
Address e8ba.70b.57180
Cost 200000
Port 25 (FastEthernet0/23)
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority 32770 (priority 32768 sys-id-ext 2)
Address e8ba.70e.1d980
A. VLAN 1
B. VLAN 70
C. VLAN 80
D. VLANs 1, 70, and 80
E. VLANs 1 and 70
F. VLANs 1 and 80
G. VLANs 70 and 80

Answer: C

NEW QUESTION 2
You are enabling OSPF on a router and notice that all the Fast Ethernet and the Gigabit Ethernet interfaces have the same OSPF cost of 1. Which single configuration change can you make in router ospf configuration mode so that the Fast Ethernet interfaces have a higher OSPF cost than the Gigabit Ethernet interfaces?

A. Change the OSPF interface cost globally.
NEW QUESTION 3
When upgrading a Cisco ASR 1001 Router, when is the request platform software package expand file bootflash:image-name command required?

A. to copy the consolidated Cisco IOS XE image to the bootflash:
B. to perform Cisco IOS ISSU on the standby route processor
C. to run the router using a consolidated package
D. to run the router using individual subpackages

Answer: D

Explanation:

NEW QUESTION 4
When configuring a new VLAN on Cisco IOS switches, which configuration parameter is required?

A. VLAN name
B. native VLAN ID
C. VLAN ID
D. VLAN map
E. VLAN MTU

Answer: C

NEW QUESTION 5
Refer to the partial Cisco IOS router configuration exhibit.
Which statement is true?

A. To support the subinterface configuration, the Fa0/0 main interface configuration is missing the encapsulation dot1Q command.
B. The Fa0/0 interface/subinterfaces are configured correctly to operate as a trunk port to provide inter-VLAN routing for three VLANs (VLANs 1, 2, and 3).
C. To provide inter-VLAN routing, the Fa0/0.1, Fa0/0.2 and Fa0/0.3 subinterface configuration is missing the encapsulation dot1Q vlan-id subinterface configuration command.
D. To provide inter-VLAN routing, the router is missing the vlan 1, vlan 2, and vlan 3 global configuration commands.

Answer: C

NEW QUESTION 6
Refer to the partial Cisco IOS XR BGP configuration exhibit.

Which two statements are true? (Choose two)

A. This router uses its Loopback 0 interface IP address when establishing BGP peering with the 10.2.1.1 router.
B. This router uses its Loopback 0 interface IP address when establishing BGP peering with the 192.168.101.11 router.
C. Test1 refers to a route policy that is defined using the RPL.
D. Both the IBGP and EBGP sessions will be authenticated.
E. The IBGP session is missing the mandatory route-policy configuration.

Answer: AC

NEW QUESTION 7
Which statement about Cisco IOS XE software is true?

A. It uses a two-stage configuration process.
B. It is identical in look and feel to Cisco IOS software.
C. It runs on the Cisco ASR 9010 platform.
D. Packages can be added using the install add and install activate commands.
E. It runs on the Cisco ME 3400 platform.

Answer: B

Explanation:

The IOS feature set for routing and switching is unmatched in the industry, delivering functionality required for business critical applications. Preserving these advantages of IOS to our customers is critical for Cisco. IOS XE retains the exact same look and feel of IOS, while providing enhanced future-proofing and improved functionality. In IOS XE, IOS 15.0 runs as a single daemon within a modern Linux operating system. Additional system functions now run as additional, separate processes in the host OS environment. The operation, support and management of IOS XE does not require re-training from classic IOS.

NEW QUESTION 8
A network administrator is troubleshooting an issue whereupon they able to ping the web server, but unable to web browse to the same web server. When the administrator telnets to the web server on port 80, the administrator gets a connection refused message. At which three layers of the OSI model does the problem exist? (Choose three.)

A. Layer 1
B. Layer 2
C. Layer 3
D. Layer 4
E. Layer 5
F. Layer 6
G. Layer 7

Answer: DEG

NEW QUESTION 9
Refer to the exhibit.

Which three commands are required on interface fastethernet 5/6 in order to create a trunk link between another Cisco Catalyst Switch? (Choose three.)

A. no shutdown
B. switchport mode trunk
C. encapsulation trunk
D. switchport trunk encapsulation dot1Q
E. switchport trunk enable
F. no switchport
G. interface fastethernet 5/6 trunk
H. switchport trunk allow dot1Q

Answer: ABD

NEW QUESTION 10
Refer to the partial Cisco IOS-XR configuration. What is the purpose of the for PFX to PEER command?

A. To selectively enable LDP peering(s) with specific neighbors
B. To selectively disable LDP peering(s) with specific neighbors
C. To perform outbound filtering for local label advertisement for one or more prefixes to one or more peers
D. To perform inbound filtering for local label advertisement for one or more prefixes from one or more peers

Answer: C

NEW QUESTION 11
What does the command 'rep admin vlan 100' accomplish?

A. confines flooding of REP messages to VLAN 100
B. reserves REP admin VLAN to 100 so that no REP messages are sent on VLAN 100
C. forces VLAN 100 into a REP block state
D. this is an invalid command

Answer: A
NEW QUESTION 12
Refer to the exhibit.

```
ME3400
ip routing
vlan 10
vlan 20
interface Fa0/1
switchport access vlan 10
interface Fa0/2
switchport access vlan 20
```

What additional configuration is required to enable inter-VLAN routing for VLANs 10 and 20 on the Cisco ME 3400 switch using the Metro IP Access image?

A. interface Fa0/1 ip address 192.168.10.1 255.255.255.0!interface Fa0/2 ip address 192.168.20.1 255.255.255.0!
B. interface Fa0/1 ip address 192.168.10.1 255.255.255.0!interface Fa0/2 ip address 192.168.20.1 255.255.255.0!router eigrp 1network 192.168.10.0network 192.168.20.0!
C. interface vlan 10 ip address 192.168.10.1 255.255.255.0!interface vlan 20 ip address 192.168.20.1 255.255.255.0!
D. interface Fa0/1 encapsulation dot1q 10ip address 192.168.10.1 255.255.255.0!interface Fa0/2 encapsulation dot1q 20 ip address 192.168.20.1 255.255.255.0!

Answer: C

NEW QUESTION 13
Refer to the exhibit.

```
PE Configuration
vrf Customer10
rd 100:301
address-family ipv4 unicast

neighbor 209.165.201.22
remote-as 65101
address-family ipv4 unicast
as-override
```

A new customer is not receiving routes from the Provider Edge router. What command needs to be added to advertise routes?

A. route-policy (route group) in
B. route-policy (route group) out
C. route-map (route group) in
D. prefix-list (prefix-list) in
E. prefix-list (prefix-list) out

Answer: B

NEW QUESTION 14
A customer has installed a second router and copied the configuration from the first router, as shown below. What change is needed to ensure that router 1 is the primary IP address?

Router 1
standby 1 priority 110
standby 1 preempt
Router 2
standby 1 priority 120
standby 1 preempt

A. decrease the priority on router 2 to 109
B. decrease the priority on router 1 to 109
C. remove standby 1 preempt from router 1
D. increase the priority on router 2 to 130
E. increase the priority on router 1 to 119

Answer: A

NEW QUESTION 15
Which Cisco IOS-XR command is used to unpack a package on the local router?

A. install boot
B. install commit
C. install add
D. install package

Answer: C
NEW QUESTION 16
Which spanning-tree mode uses the name command to configure a region name?

A. MST
B. PVST+
C. PVRST+
D. RSTP

Answer: A

NEW QUESTION 17
Select and Place:

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Place the options in order from top to bottom: designated backup root alternate

NEW QUESTION 18
Which first-hop router redundancy protocol uses the active virtual gateway to assign a virtual MAC address to the active virtual forwarders?

A. HSRP
B. VRRP
C. GLBP
D. FHRP

Answer: C

Explanation:

NEW QUESTION 19
Cisco IP NGN service providers can offer multiple services to their customers by using which type of technology in their core networks?

A. ATM
B. SONET/SDH
C. Frame Relay
D. IP/MPLS
E. PBB

Answer: D

NEW QUESTION 20
Which three statements about OSPFv2 or OSPFv3 authentication are true? (Choose three.)

A. On Cisco IOS XR platforms, OSPFv3 authentication can be configured at the OSPF routing process, area, or interface level.
B. OSPF authentication on Cisco IOS and IOS XE platforms can be configured per area or per interface.
C. On Cisco IOS and IOS XE platforms, the authentication key can only be configured per interface.
D. OSPFV3 uses IPsec for authentication and encryption.
E. On Cisco IOS XR platforms, the OSPF authentication that is configured for the area overrides the authentication that is configured for the interface.
F. On Cisco IOS and IOS XE platforms, the two OSPFv2 authentication methods that are supported are MD5 and SHA1.

Answer: ABD

Explanation:
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NEW QUESTION 21

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