Exam Questions 640-878

SPNGN2 Building Cisco Service Provider Next-Generation Networks, Part 2
NEW QUESTION 1
Refer to the partial configurations exhibit.

```
[ME3400]
ip routing

vlan 10
switchport access vlan 10

vlan 20
switchport access vlan 20
```

What additional configurations are 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 Fa0/1ip address 192.168.10.1 255.255.255.0!
   interface Fa0/2ip address 192.168.20.1 255.255.255.0!

B. interface Fa0/1ip address 192.168.10.1 255.255.255.0!
   interface Fa0/2ip address 192.168.20.1 255.255.255.0!
   router eigrp 1network 192.168.10.0 network 192.168.20.0

C. interface vlan 10ip address 192.168.10.1 255.255.255.0!
   interface vlan 20ip 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 20ip address 192.168.20.1 255.255.255.0!

Answer: C

NEW QUESTION 2
Which segment protocol provides fast and predictable convergence (typically within 50 ms) in Layer 2 Ethernet ring topologies?

A. Spanning Tree Protocol
B. Flex Links
C. Resilient Ethernet Protocol
D. Spatial Reuse Protocol
E. Resilient Packet Ring

Answer: C

Explanation:
Resilient Ethernet Protocol (REP) on the Cisco ME 3400E Ethernet Access switch. REP is a Cisco proprietary protocol that provides an alternative to Spanning Tree Protocol (STP) to control network loops, handle link failures, and improve convergence time. REP controls a group of ports connected in a segment, ensures that the segment does not create any bridging loops, and responds to link failures within the segment. REP provides a basis for constructing more complex networks and supports VLAN load balancing.

NEW QUESTION 3
What is dual IOS mode on the Cisco ASR 1001 Router?

A. redundant IOS processes that are running on the active RP and standby RP
B. active and standby IOS processes that are running on a single RP
C. separate Cisco IOS XE and IOS XR processes that are running on a single RP
D. separate Cisco IOS XE and IOS XR processes that are running on two different RPs
E. checkpointed redundant IOS processes that are running on two different RPs in active/active mode

Answer: B

Explanation:
NEW QUESTION 4
A customer has created a new VLAN for the subnet that was allocated to them. Computers on the subnets can ping their default gateway, but they cannot ping devices in the other subnet. What is most likely the problem?

A. Firewall on the Provider Edge is blocking access
B. InterVLAN routing is not configured
C. BGP has not been configured with the Provider Edge router
D. VLAN Switched Virtual Interface is in a down state

Answer: B

NEW QUESTION 5
After configuring Q-in-Q on a new interface, the customer has requested that the IOS version and remote model also be viewable via the trunk. What additional command would need to be applied to both sides of the Q-in-Q trunk?

A. l2protocol-tunnel cdp
B. l2protocol-tunnel stp
C. l2protocol-tunnel vtp
D. l2protocol-tunnel lldp
E. l2protocol-tunnel odr

Answer: A

NEW QUESTION 6
Refer to the exhibit.

A network engineer implemented these configurations. However, Intermediate System-to-Intermediate System (IS-IS) neighbors are unable to establish. What is the reason for this error?

A. missing router IS-IS x command
B. missing IP router IS-IS command
C. missing network mask
D. missing network statement
E. missing MTU matching value

Answer: B

NEW QUESTION 7
Which three are examples of a link-state routing protocols and static routing? (Choose three.)

A. EIGRP
B. RIP
C. OSPF
D. IS-IS
E. IP default-gateway
F. ODR
G. Proxy Arp

Answer: CDE

NEW QUESTION 8
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 9
What command will install the image needed on the Cisco IOS-XR if the SSH configuration options are unavailable?

A. install activate disk0:c12k-k9sec.pie-4.1.2
B. install activate disk0:c12k-diags.pie-4.1.2
C. install commit disk0:c12k-diags.pie-4.1.2
D. install ssh activate disk0:c12k-k9sec.pie-4.1.2

Answer: A

NEW QUESTION 10
What type of package is bootable on the Cisco ASR 1000 router running IOS-XE?

A. boot package
B. consolidated package
C. sub-package
D. supplemental package

Answer: B

NEW QUESTION 11
What package provides the software for the route processor in the IOS XE Software?

A. RPIOS
B. ESPBase
C. RPControl
D. RPBase
E. SIP SPA

Answer: D

NEW QUESTION 12
What platform is best placed as the edge device within the Cisco Service Provider Next Generation Network architecture running IOS-XE?

A. ASR 9000
B. Catalyst 6509
C. 2921 Router
D. C3560G
E. Catalyst 7609

Answer: A

NEW QUESTION 13
Select and Place:
A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 14

Select and Place:

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 15
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Instructions

- Enter the proper IOS CLI show commands and analysis the show outputs on the Cisco switches to answer the multiple-choice questions.
- Not all show commands or show commands options are supported or required for this simulation.
- THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.
- From the Topology, click on the switch icon to gain access to the console of the switch. No console or enable passwords are required.
- To access the multiple-choice questions, click on the numbered boxes on the left of the top panel.
- There are four multiple-choice questions with this task. Be sure to answer all four questions before selecting the Next button.

Scenario

Refer to the topology diagram. Use the appropriate show commands on the Cisco switches to answer the multiple-choice questions.
NEW QUESTION 16
Which IP addresses are matched by the permit 192.168.80.64 0.0.0.15 access-list entry?
A. 192.168.80.64 to 192.168.80.255
B. 192.168.80.64 to 192.168.80.96
C. 192.168.80.64 to 192.168.80.95
D. 192.168.80.64 to 192.168.80.80
E. 192.168.80.64 to 192.168.80.79

Answer: E

NEW QUESTION 17
Which BGP attribute is also used for loop prevention?

A. weight
B. local preference
C. MED
D. AS path

Answer: D

Explanation:
As RFC 4271 says, "AS loop detection is done by scanning the full AS path (as specified in the AS_PATH attribute), and checking that the autonomous system number of the local system does not appear in the AS path".

NEW QUESTION 18
The permit 172.16.32.0 0.0.15.255 access-list entry permits exactly which IP address range?

A. 172.16.32.0 to 172.16.47.255
B. 172.16.32.0 to 172.16.48.255
C. 172.16.32.0 to 172.16.62.255
D. 172.16.32.0 to 172.16.63.255
E. 172.16.32.0 to 172.16.64.255
F. 172.16.32.0 to 172.16.255.255

Answer: A

NEW QUESTION 19
Refer to the Cisco IOS XR configuration exhibit.

```
router isis 1
net 45.0001.0100.0200.1001.00
address-family ipv4 unicast
metric-style wide
address-family ipv6 unicast
metric-style wide
```

Which statement about the configuration is true?

A. This is a Level-2-only router.
B. This is a Level-1-only router.
C. The maximum IS-IS path metric is 63.
D. This router belongs to area ID 0001.
E. This configuration is missing the net configuration for the IPv6 unicast address family.

Answer: D

Explanation:
NEW QUESTION 20
Select and Place:

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>show cef</td>
<td>displays the content of the FIB</td>
</tr>
<tr>
<td>show mpls ldp bindings</td>
<td>displays the LDP status</td>
</tr>
<tr>
<td>show mpls ldp forwarding</td>
<td>displays the content of the LFI</td>
</tr>
<tr>
<td>show mpls ldp neighbors</td>
<td>displays the content of the LFI</td>
</tr>
</tbody>
</table>

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 21
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