JN0-692 Q&As

Service Provider Routing and Switching Support, Professional

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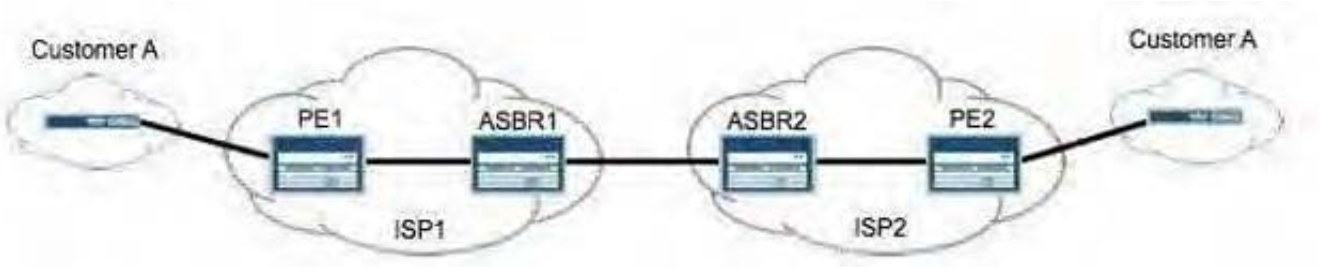
QUESTION 1

Click the Exhibit button.



You are building an interprovider VPN with ISP2 to support end-to-end connectivity for Customer A, as shown in the exhibit. For scalability reasons, the ASBR routers cannot exchange VPN routes for Customer

A. Which two configurations are needed to support this requirement? (Choose two.)

A. family inet-vpn on the ASBRs

B. labeled-unicast on the ASBRs

C. multihop EBGP between the PEs

D. one VRF on the ASBRs for Customer A

Correct Answer: BC

QUESTION 2

Which two statements correctly describe BGP operation? (Choose two.)

A. IBGP does not advertise routes learned from other IBGP neighbors.

B. IBGP advertises routes learned from other IBGP neighbors.

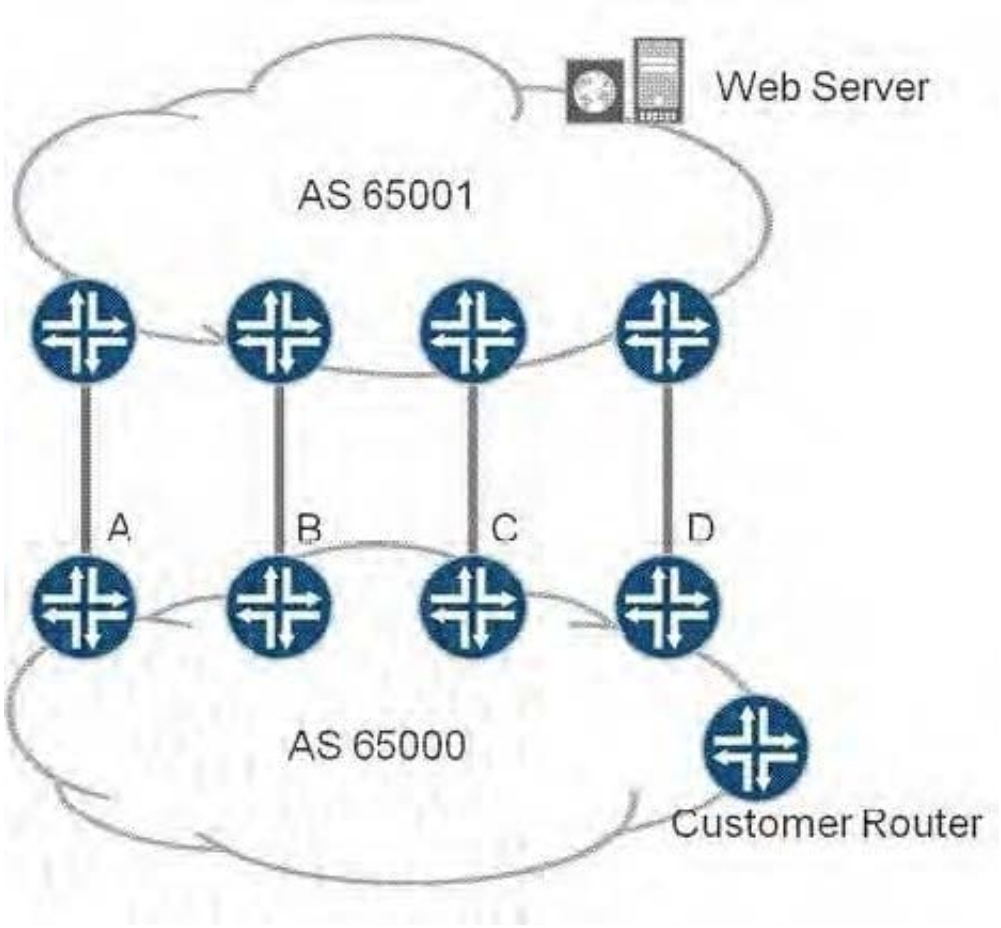
C. EBGP advertises routes learned from other IBGP or EBGP neighbors.

D. EBGP does not advertise routes learned from other EBGP neighbors.

Correct Answer: AC

QUESTION 3

Click the Exhibit button.



Router A: Local Pref 110, IGP Cost 1000 Router B: Local Pref 100, IGP Cost 200 Router C: Local Pref 110, IGP Cost 900 Router D: Local Pref 100, IGP Cost 1000 Through which link will traffic to the Web server leave your network (AS 65000) from the customer router?

You are the administrator of AS 65000. There are four links between your network (AS 65000) and your upstream provider (AS 65001). You have an import policy on all of your routers. The routing table on the customer router has four routes to the Web server as follows:

A. Router A

B. Router B

C. Router C

D. Router D

Correct Answer: C

QUESTION 4

Click the Exhibit button.

```
192.168.56.1
   From: 192.168.56.5, LSPstate: Up, ActiveRoute: 0
   LSPname: to-r6, LSPpath: Primary
   LSPtype: Static Configured
   Suggested label received: -, Suggested label sent: -
   Recovery label received: -, Recovery label sent: 3
   Resv style: 1 FF, Label in: -, Label out: 3
   Time left:    -, Since: Tue Feb 22 21:38:36 2011
   Tspec: rate 0bps size 0bps peak Infbps m 20 M 1500
   Port number: sender 1 receiver 18916 protocol 0
   FastReroute desired
   PATH rcvfrom: localclient
   Adspec: sent MTU 1500
   Path MTU: received 1500
   PATH sentto: 10.10.56.1 (ge-1/0/1.0) 7 pkts
   RESV rcvfrom: 10.10.56.1 (ge-1/0/1.0) 5 pkts
   Explct route: 10.10.56.1
   Record route: <self> 10.10.56.1
     Detour is Up
     Detour Tspec: rate 0bps size 0bps peak Infbps m 20 M 1500
     Detour adspec: sent MTU 1500
     Path MTU: received 1500
     Detour PATH sentto: 10.10.10.9 (ge-1/0/2.0) 4 pkts
     Detour RESV rcvfrom: 10.10.10.9 (ge-1/0/2.0) 3 pkts
     Detour Explct route: 10.10.10.9 10.10.10.6
     Detour Record route: <self> 10.10.10.9 10.10.10.6
     Detour Label out: 299856
```

Referring to the exhibit, which type of traffic protection mechanism is used for the LSP?

A. link-protection

B. fast-reroute

C. node-link-protection

D. bypass

Correct Answer: B

QUESTION 5

A network uses IPv4 and IPv6 addressing. You must use only OSPFv3 as your IGP. Which configuration will advertise both IPv4 and IPv6 addresses to the network?

A.
```
[edit]
user@router# show protocols
ospf {
    area 0.0.0.0 {
        interface all;
    }
}
ospf3 {
    area 0.0.0.0 {
        interface all;
    }
}
```

B.
```
[edit]
user@router# show protocols
ospf3 {
     area 0.0.0.0 {
          family inet {
              interface all;
          }
          family inet6 {
              interface all;
     }
 }
```

C.
```
[edit]
user@router# show protocols
ospf3 {
     export ipv4-routes;
     area 0.0.0.0 {
         interface all;
    }
}

[edit]
user@router# show policy-options
policy-statement ipv4-routes {
     term get-ipv4 {
          from {
              family inet;
              protocol ospf;
          }
          then accept;
    }
}
```

D.
```
[edit]
user@router# show protocols
ospf3 {
     realm ipv4-unicast {
          area 0.0.0.0 {
              interface all;
          }
     }
      area 0.0.0.0 {
          interface all;
     }
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 6

Click the Exhibit button.

```
[edit]
root@R3# run show isis database
IS-IS level 1 link-state database:
LSP ID                  Sequence  Checksum  Lifetime  Attributes
R3.00-00                     0x1    0x2748      1146  L1 L2
  1 LSPs

IS-IS level 2 link-state database:
LSP ID                  Sequence  Checksum  Lifetime  Attributes
R4.00-00                     0x2    0xda98      1150  L1 L2
R3.00-00                     0x2    0x2de1      1152  L1 L2
R3.02-00                     0x1    0x48c6      1152  L1 L2
  3 LSPs
```

Based on the output in the exhibit, which statement is correct?

A. R4 has been configured with an IS-IS export policy and is announcing external routing information.

B. R3 and R4 have an adjacency at both level 1 and level 2.

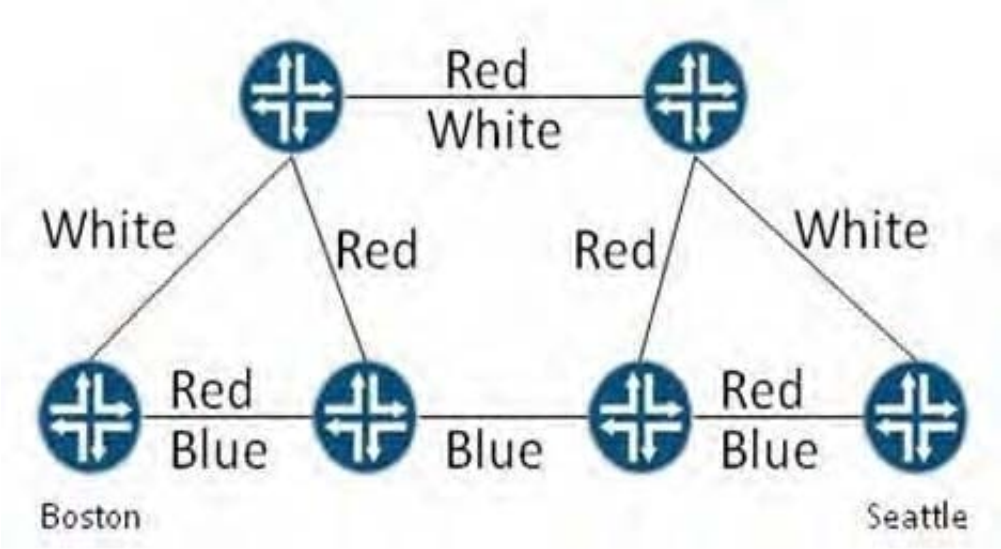
C. R3 has been configured so that it is not used for transit traffic.

D. R3 and R4 have only a level 2 adjacency.

Correct Answer: D

QUESTION 7

Click the Exhibit button.



On the network shown in the exhibit, a network administrator is attempting to bring up an LSP between Boston and Seattle using administrative groups.

Which two of the following LSP configurations allow the LSP to establish? (Choose two.)

A.
```
[edit protocols mpls label-switched-path Boston-to-Seattle]
user@Boston# show
to 192.168.10.100;
admin-group {
     include-any White;
     exclude Red;
}
```

B.
```
[edit protocols mpls label-switched-path Boston-to-Seattle]
user@Boston# show
to 192.168.10.100;
admin-group include-all [ Red White Blue ];
```

C.
```
[edit protocols mpls label-switched-path Boston-to-Seattle]
user@Boston# show
to 192.168.10.100;
admin-group {
     include-any [ Red Blue ];
     include-all Blue;
}
```

D.
```
[edit protocols mpls label-switched-path Boston-to-Seattle]
user@Boston# show
to 192.168.10.100;
admin-group {
     include-any Red;
     include-all Blue;
}
```

A. Option A

B. Option B

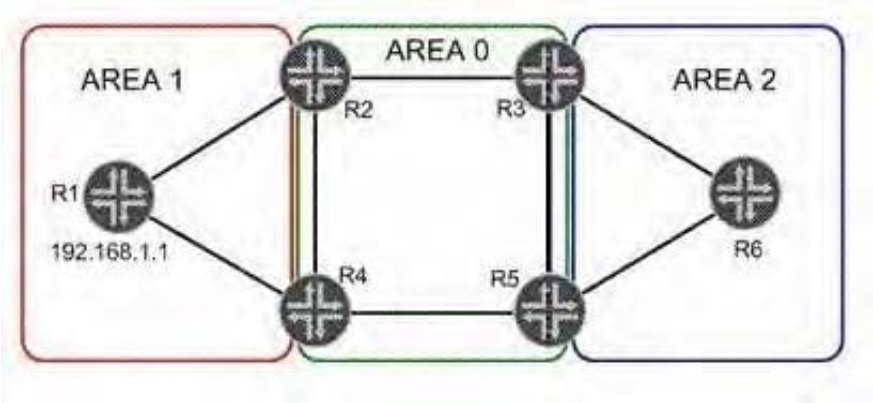
C. Option C

D. Option D

Correct Answer: CD

QUESTION 8

Click the Exhibit button.



In the exhibit, R1 has a loopback address of 192.168.1.1. Its loopback interface is included in OSPF Area 1.Which two statements are true? (Choose two.)

A. R1 will advertise the loopback address in a Type 1 LSA.

B. R1 will advertise the loopback address in a Type 3 LSA.

C. Area 0 will see the loopback address in a Type 1 LSA.

D. Area 0 will see the loopback address in a Type 3 LSA.

Correct Answer: AD

QUESTION 9

Click the Exhibit button.

As shown in the exhibit, you have an LSP established from R1 to R4. Your network experiences a link failure between R2 and R3.Which statement is correct?

A. A ResvTear message is sent toward the egress router.

B. A ResvConf message is sent toward the ingress router.

C. A PathErr message is sent toward the egress router.

D. A ResvTear message is sent toward the ingress router.

Correct Answer: D

QUESTION 10

Click the Exhibit button.

```
user@PE1> show bgp neighbor | match nlri
  NLRI for restart configured on peer: inet-unicast inet-vpn-unicast
  NLRI advertised by peer: inet-unicast
  NLRI for this session: inet-unicast
  NLRI that peer supports restart for: inet-unicast
  NLRI that restart is negotiated for: inet-unicast
  NLRI of received end-of-rib markers: inet-unicast
  NLRI of all end-of-rib markers sent: inet-unicast

user@PE2> show bgp neighbor | match nlri
  NLRI for restart configured on peer: inet-unicast
  NLRI advertised by peer: inet-unicast inet-vpn-unicast
  NLRI for this session: inet-unicast
  NLRI that peer supports restart for: inet-unicast inet-vpn-unicast
  NLRI that restart is negotiated for: inet-unicast
  NLRI of received end-of-rib markers: inet-unicast
  NLRI of all end-of-rib markers sent: inet-unicast
```

Two PE routers in your Layer 3 VPN are not advertising customer VPN routes to each other. Referring to the output in the exhibit, which configuration parameter is missing?

A. family inet on PE1

B. family inet on PE2

C. family inet-vpn on PE1

D. family inet-vpn on PE2

Correct Answer: D

QUESTION 11

Which statement is true about ASM and/ or SSM multicast?

A. ASM requires an external mechanism to find the source.

B. SSM only builds RPT trees, since the RP is replaced by an external mechanism.

C. ASM and SSM for IPv6 multicast use embedded RP.

D. SSM does not require MSDP.

Correct Answer: D

QUESTION 12

You are asked to design a Layer 2 VPN service between service provider networks that needs Ethernet transport capabilities. The VPN should support two or three endpoints. Which Layer 2 VPN technology should you propose?

A. LDP-signaled VPLS

B. BGP-signaled VPLS, using the RFC 4448 Layer 2 frame format

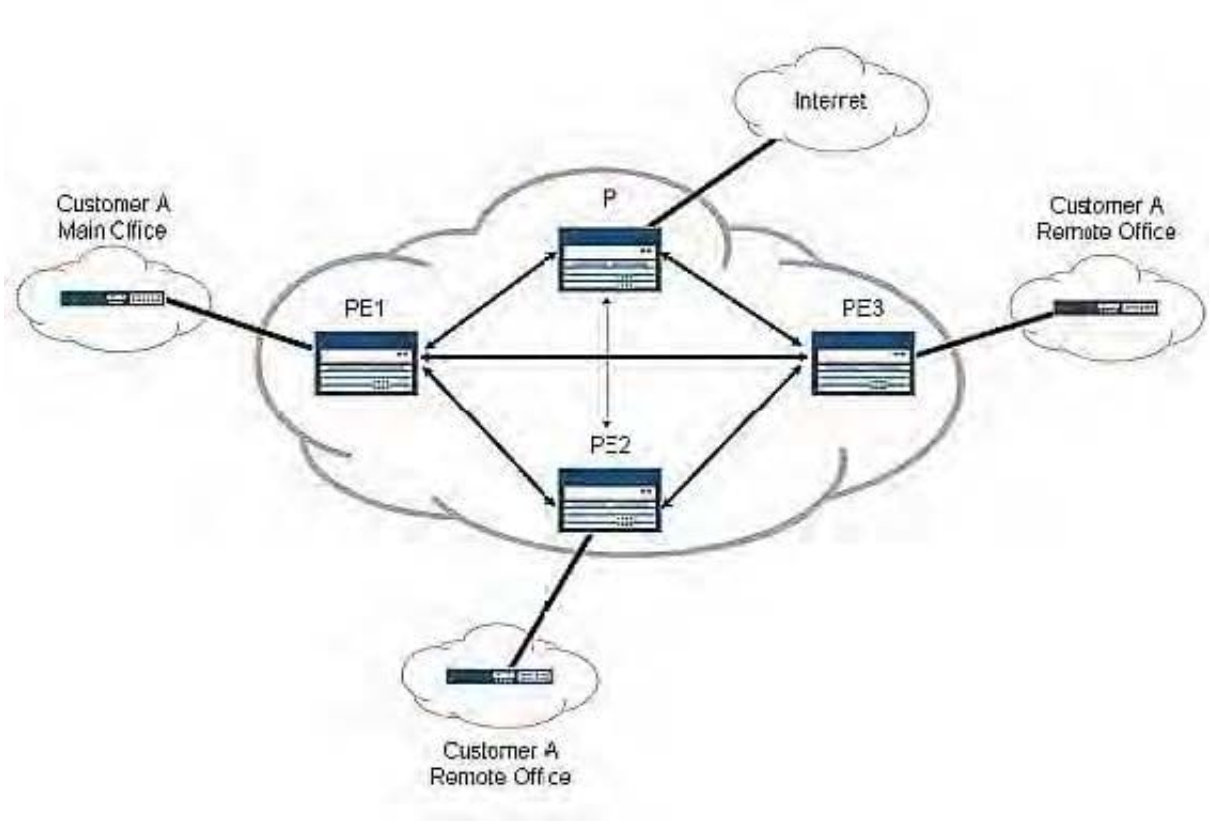
C. LDP Layer 2 circuit, using the RFC 4448 Layer 2 frame format

D. BGP Layer 2 VPN

Correct Answer: B

QUESTION 13

Click the Exhibit button.



In the exhibit, Customer A uses private RFC1918 addresses within its network. The customer wants to have all Internet access for its organization transit through the main office for security and NAT purposes. Each of the PE routers in your network contains Internet routes in the main instance routing table and is capable of provisioning both a VRF and a non-VRF interface to its attached CE router. Which router should be configured to accomplish the administrative goal of the customer?

A. P

B. PE1

C. PE2

D. PE3

Correct Answer: B

QUESTION 14

An OSPF neighbor between routers R1 and R2 is stuck in loading state on R2. What are two causes? (Choose two.)

A. OSPF is not enabled on the interfaces.

B. A firewall filter is blocking OSPF hellos on both sides.

C. The R1 router has received a corrupted link-state request packet.

D. The interface MTU is mismatched between the routers.

Correct Answer: CD

QUESTION 15

Click the Exhibit button.

```
192.168.56.1
   From: 192.168.56.5, LSPstate: Up, ActiveRoute: 0
   LSPname: to-r6, LSPpath: Primary
   LSPtype: Static Configured
   Suggested label received: -, Suggested label sent: -
   Recovery label received: -, Recovery label sent: 3
   Resv style: 1 FF, Label in: -, Label out: 3
   Time left:    -, Since: Tue Feb 22 21:38:36 2011
   Tspec: rate 0bps size 0bps peak Infbps m 20 M 1500
   Port number: sender 1 receiver 18916 protocol 0
   FastReroute desired
   PATH rcvfrom: localclient
   Adspec: sent MTU 1500
   Path MTU: received 1500
   PATH sentto: 10.10.56.1 (ge-1/0/1.0) 7 pkts
   RESV rcvfrom: 10.10.56.1 (ge-1/0/1.0) 5 pkts
   Explct route: 10.10.56.1
   Record route: <self> 10.10.56.1
     Detour is Up
     Detour Tspec: rate 0bps size 0bps peak Infbps m 20 M 1500
     Detour adspec: sent MTU 1500
     Path MTU: received 1500
     Detour PATH sentto: 10.10.10.9 (ge-1/0/2.0) 4 pkts
     Detour RESV rcvfrom: 10.10.10.9 (ge-1/0/2.0) 3 pkts
     Detour Explct route: 10.10.10.9 10.10.10.6
     Detour Record route: <self> 10.10.10.9 10.10.10.6
     Detour Label out: 299856
```

Referring to the exhibit, which type of traffic protection mechanism is used for the LSP?

A. link-protection

B. fast-reroute

C. node-link-protection

D. bypass

Correct Answer: B