JN0-663 Q&As

Service Provider Routing and Switching, Professional (JNCIP-SP)

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QUESTION 1

```
[edit routing-instances]
user@PE-1# show
CE-1 {
    protocols {
        bgp {
            group CE-1 {
                type external;
                peer-as 65555;
                neighbor 10.1.1.100;
            }
        }
    }
    instance-type vrf;
    interface ge-0/0/2.0;
    route-distinguisher 65512:1;
    vrf-target target:65512:100;
}
CE-2 {
    protocols {
        bgp {
            group CE-2 {
                type external;
                peer-as 63333;
                neighbor 10.1.2.100;
            }
        }
    }
    instance-type vrf;
    interface ge-0/0/3.0;
    route-distinguisher 65512:2;
    vrf-target target:65512:100;
}
```

Two CE devices (CE-1 and CE-2) belong to the same customer and connect into a single PE device (PE1). However, the CE devices cannot communicate with each other. You want to allow the CE devices to communicate with each

other.

Referring to the exhibit, which action would solve the problem?

A. Configure both routing instances with the set routing-options autonomous-system loops 3 statement.

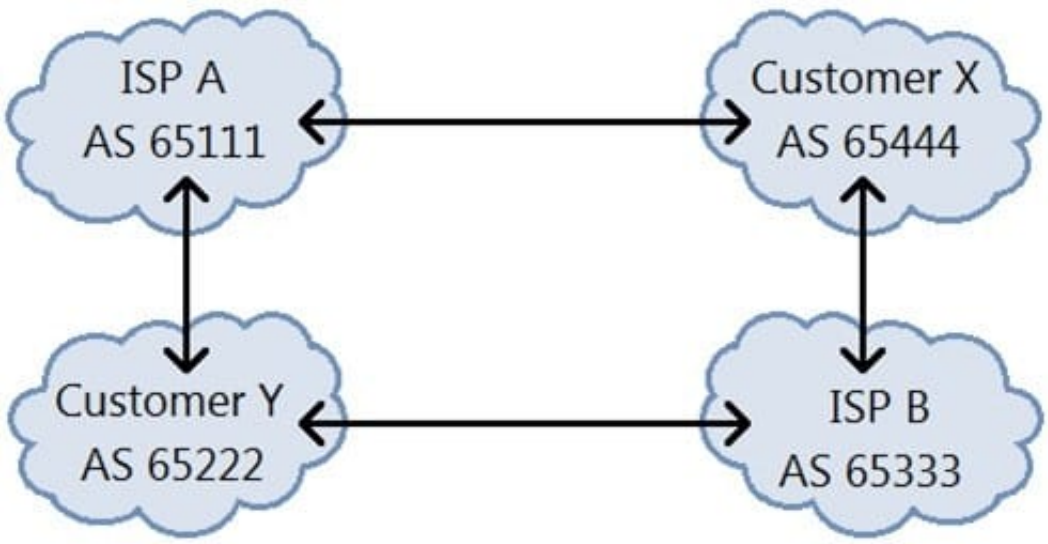
B. Configure both routing instances with the as-override statement within the BGP protocol.

C. Configure both routing instances with the vrf-table-label statement.

D. Configure both routing instances with the set routing-options auto-export statement.

Correct Answer: D

QUESTION 2



All networks shown in the exhibit contain more than one BGP speaker. You operate ISP A and must ensure that Customer Y sends their traffic to you over the directly connected link. Customer Y is not to be used for transit into your network.

What would you do to accomplish this task?

A. Advertise routes to Customer X with the custom defined 0:0 community.

B. Advertise routes to Customer X with the well-known no-advertise community.

C. Advertise routes to Customer Y with the custom defined 65535:65535 community.

D. Advertise routes to Customer Y with the well-known no-export community.

Correct Answer: D

QUESTION 3

```
[edit]
user@R4# run show route hidden extensive

inet.0: 7 destinations, 7 routes (5 active, 0 holddown, 1 hidden)
11.11.11.0/24 (1 entry, 0 announced)
         BGP    Preference: 170/-101
                Next hop type: Unusable, Next hop index: 0
                Address: 0xbc4dbb4
                Next-hop reference count: 2
                State: <Hidden Int Ext>
                Peer AS: 65002
                Age: 18
                Validation State: unverified
                Task: BGP_65002_65002.22.22.22.22
                AS path: 65001 I
                Communities: no-export no-advertise
                Accepted
                Localpref: 100
                Router ID: 22.22.22.22
                Indirect next hops: 1
                        Protocol next hop: 172.16.1.1
                        Indirect next hop: 0x0 - INH Session ID: 0x0

[edit protocols bgp]
user@R2# show
group 65001 {
    neighbor 172.16.1.1 {
        export no-advertise;
        peer-as 65001;
    }
}
group 65002 {
    type internal;
    local-address 22.22.22.22;
    neighbor 44.44.44.44 {
        export no-advertise;
    }
}
import no-export;
export nhs;
local-as 65002;

[edit]
user@R2# show policy-options
policy-statement no-advertise {
    term 1 {
        then {
            community add no-advertise;
        }
    }
}
policy-statement no-export {
    term 1 {
        then community add no-export;
        }
    }
}
policy-statement nhs {
    term 1 {
        then {
            next-hop self;
        }
    }
}
community no-advertise members no-advertise;
community no-export members no-export;
```

R2 is receiving a route from an EBGP neighbor and is advertising the route to R4.

Referring to the exhibit, which configuration on R2 will solve the issue with the route on R4?

A. Move the no-advertise export policy from group 65002 to a global BGP policy.

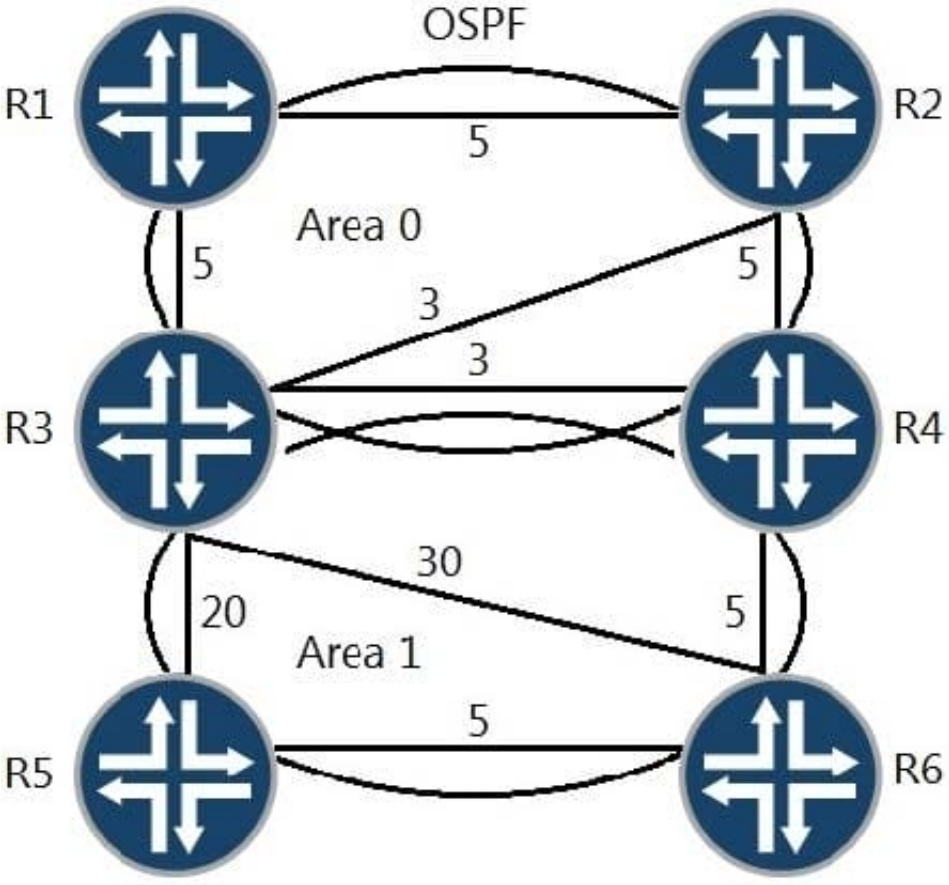
B. Move the nhs policy from a global BGP export policy to an export policy under group 65002.

C. Move the no-export policy from a global BGP import policy to an import policy under group 65001.

D. Move the no-advertise export policy from group 65001 to a global BGP policy.

Correct Answer: B

QUESTION 4



Referring to the exhibit, which path would traffic passing through R1 take to get to R6?

A. R1 -> R2 -> R4 -> R6

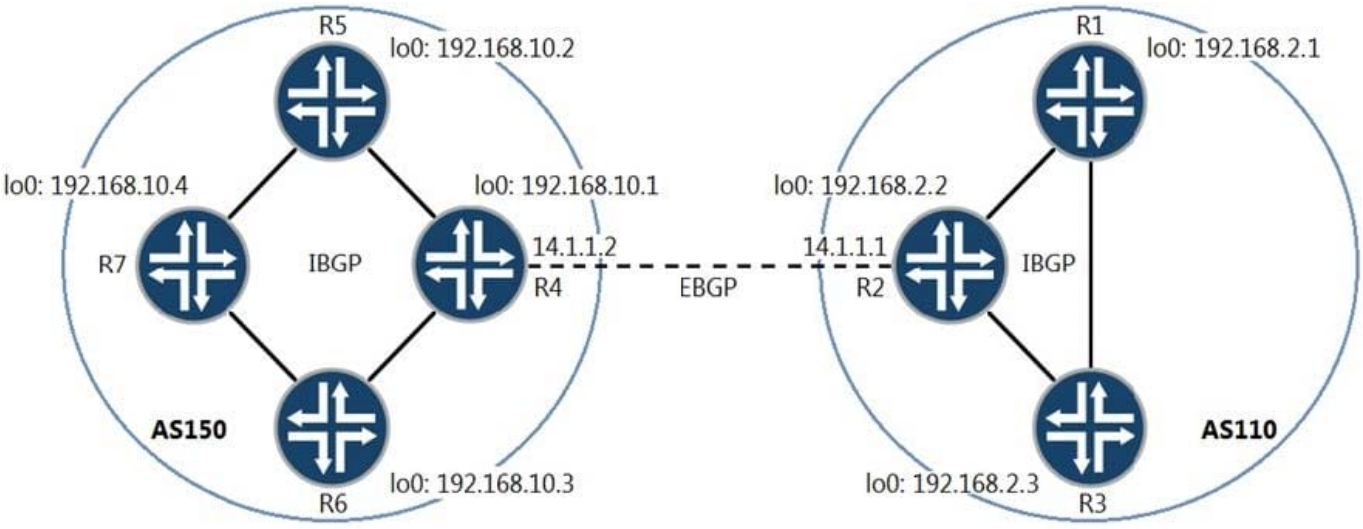
B. R1 -> R2 -> R3 -> R6

C. R1 -> R3 -> R5 -> R6

D. R1 -> R3 -> R4 -> R6

Correct Answer: C

QUESTION 5



Referring to the exhibit, which two statements are correct for a route advertised by R1 towards R4? (Choose two.)

A. The BGP next hop is set to 14.1.1.1 by R2.

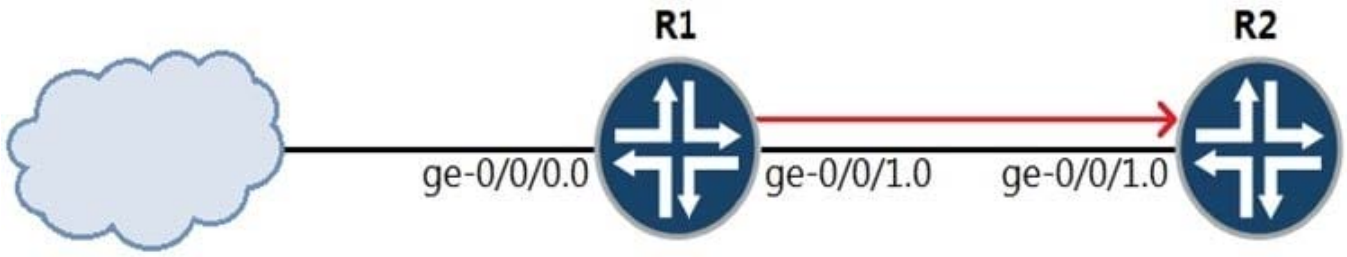
B. The AS path is set to 150 by R2.

C. The BGP next hop is set to 192.168.2.2 by R2.

D. The AS path is set to null by R2.

Correct Answer: AD

QUESTION 6



R1 assigns incoming voice traffic to the ef forwarding class. All other traffic is assigned to the best-effort forwarding class. You have configured a CoS re-write rule on R1 to include the correct CoS bit values in packets sent towards R2. You want R2 to classify traffic using the CoS markings created by R1.

Which two configuration steps are necessary to accomplish this task? (Choose two.)

A. Assign the behavior aggregate classifier to the ge-0/0/1.0 interface on R2.

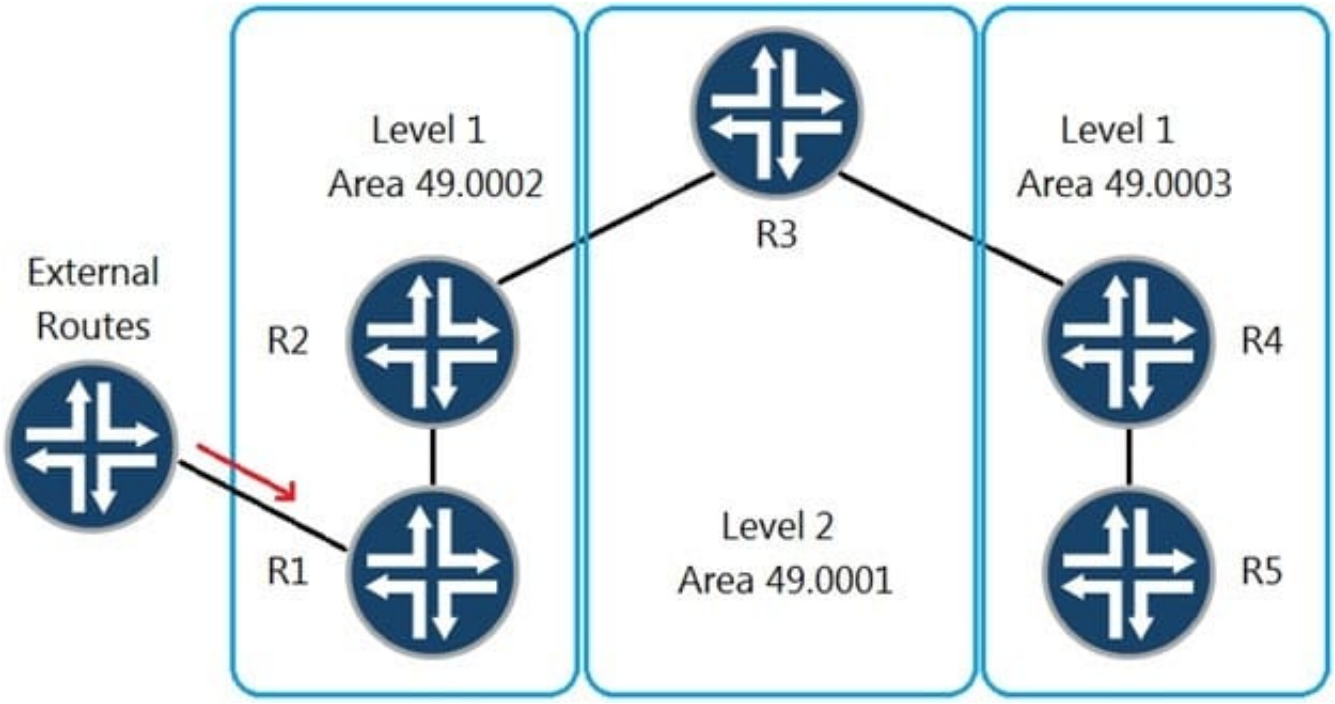
B. Assign the CoS re-write rule to the ge-0/0/1.0 interface on R2.

C. Configure a CoS re-write rule on R2 and assign matching CoS values.

D. Configure a behavior aggregate classifier on R2.

Correct Answer: AB

QUESTION 7



Referring to the exhibit, external routes are being received at R1. These routes must appear on R5. Which action will produce this result?

A. Write an export policy on R4 from level 2 to level 1 matching the external routes.

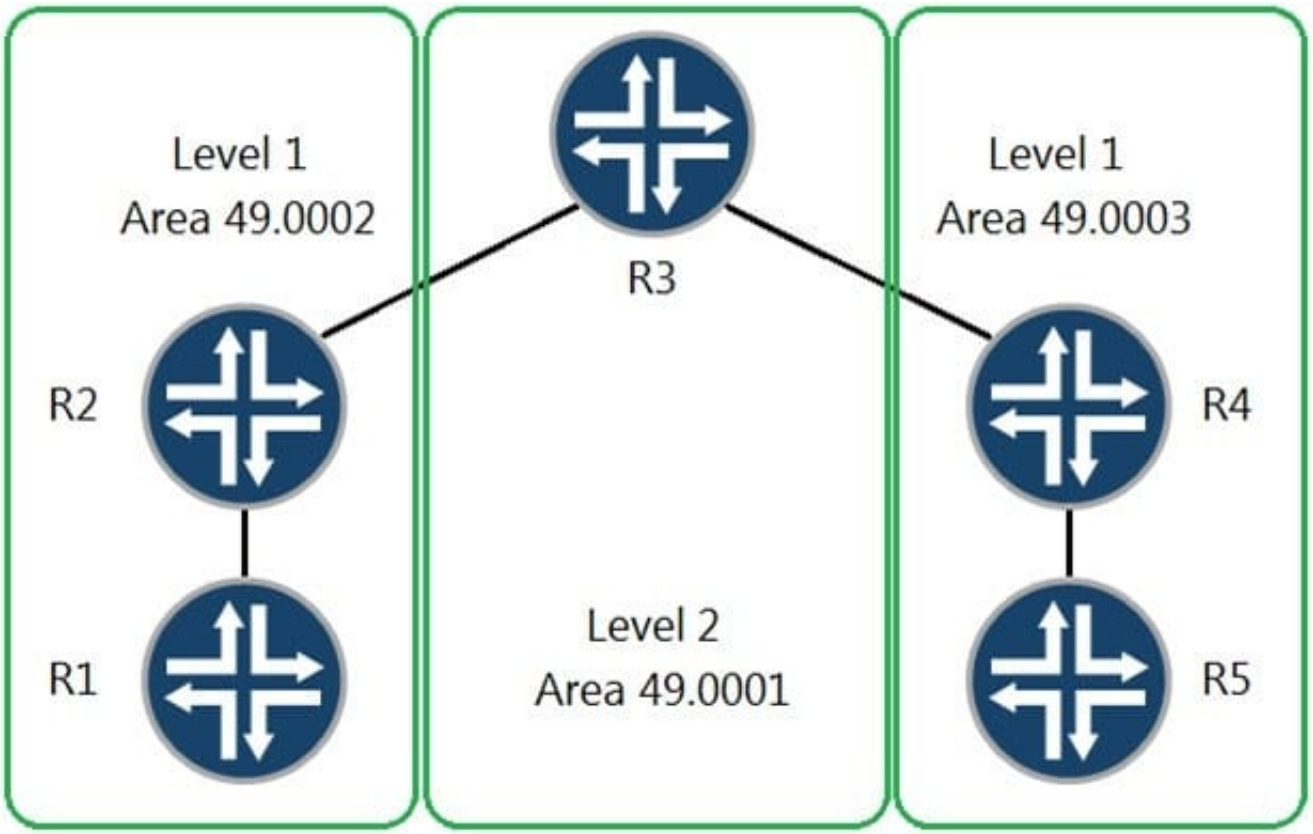
B. Turn on wide metrics on R1 and R2 and write an export policy on R4 from level 2 to level 1 matching the external routes.

C. Write an export policy on R2 from level 1 to level 2 matching the external routes.

D. Turn on wide metrics on R4 and R5 and write an export policy on R2 from level 1 to level 2 matching the external routes.

Correct Answer: B

QUESTION 8



All adjacencies have been formed, no extra options have been configured, and no policies have been written.

Referring to the exhibit, which two statements are correct? (Choose two.)

A. R2 will create a default route and send it as a TLV to R1

B. R1 cannot reach R5

C. R1 can reach R5

D. R1 will create its own default route that points to R2

Correct Answer: AC

QUESTION 9

Which two statements are true about what a route reflector does by default when distributing routes it has received from reflector clients? (Choose two.)

A. It does not change any received BGP attributes.

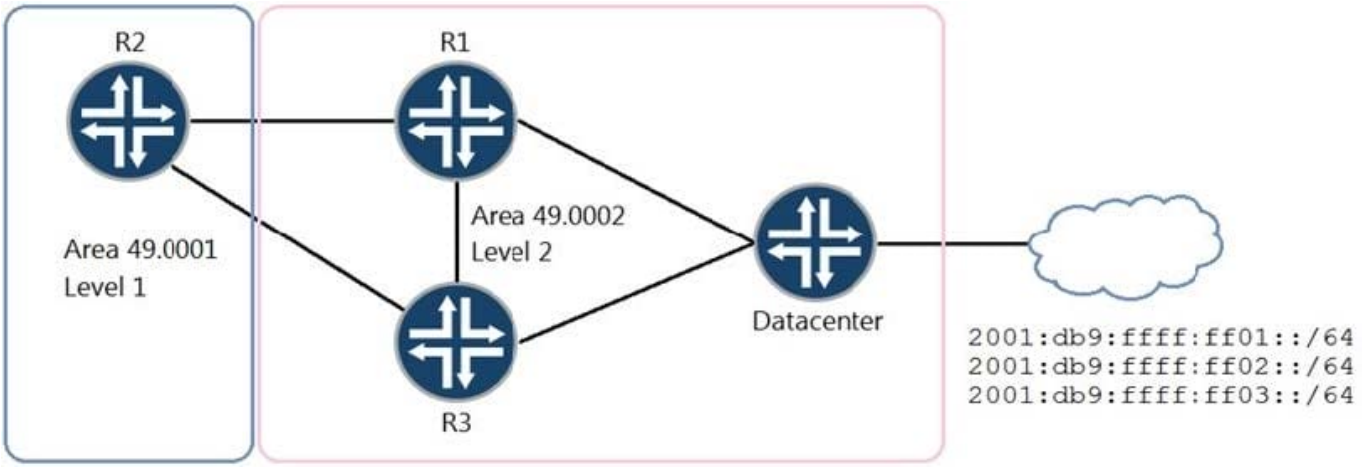
B. It changes the default BGP attributes to inform peers that it is a route reflector.

C. It sets the next hop of all routes to "self" to prevent routing loops.

D. It adds its cluster ID to the client-received routes.

Correct Answer: AD

QUESTION 10



A network designer wants to ensure that traffic from R2 destined for 2001:db9:ffff:ff00::/62 always traverses the R2-R1 link if that link is available.

Referring to the exhibit, which configuration change will satisfy this requirement?

A.

```
user@R1# show protocols isis
export leak-v6;

user@R1# show policy-options
policy-statement leak-v6 {
    term DC-routes {
        from {
            protocol isis;
            level 2;
            route-filter 2001:db9:ffff:ff00::/62 orlonger;
        }
        to level 1;
        then accept;
    }
}
```

B.

```
user@R2# show protocols isis
export leak-v6;

user@R2# show policy-options
policy-statement leak-v6 {
    term DC-routes {
        from {
            protocol isis;
            level 2;
            route-filter 2001:db9:ffff:ff00::/62 orlonger;
        }
        to level 1;
        then accept;
    }
}
```

C.

```
user@R1# show protocols isis
import leak-v6;

user@R1# show policy-options
policy-statement leak-v6 {
    term DC-routes {
        from {
            protocol isis;
            level 1;
            route-filter 2001:db9:ffff:ff00::/62 orlonger;
        }
        to level 2;
        then accept;
    }
}
```

A. Option A

B. Option B

C. Option C

Correct Answer: A

QUESTION 11

Which two statements about virtual links are correct? (Choose two.)

A. Virtual links are point-to-point.

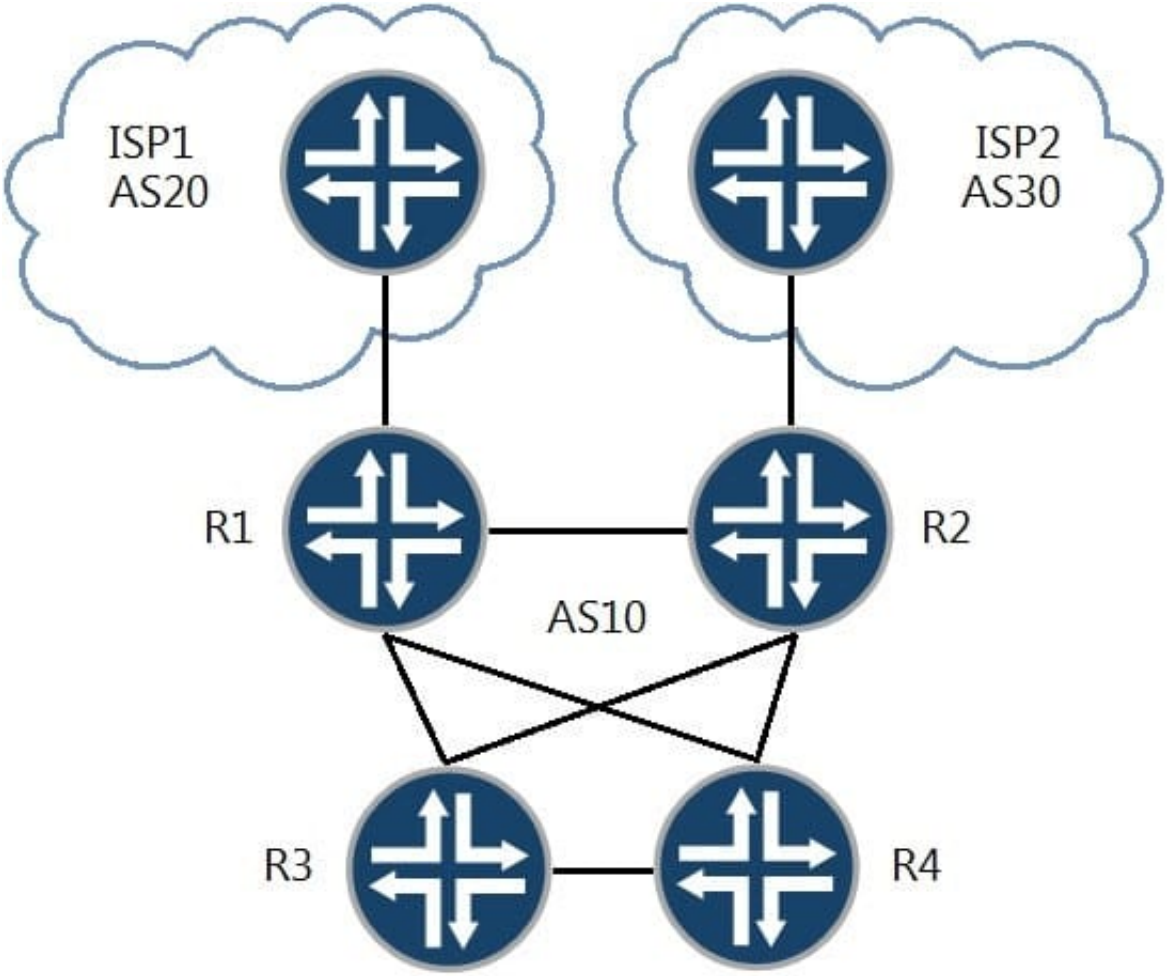
B. Virtual links are used for control plane traffic.

C. Virtual links are excluded from SPF calculations.

D. Virtual links are bidirectional.

Correct Answer: AB

QUESTION 12



Referring to the exhibit, you want to make ISP1 your preferred connection for inbound and outbound traffic.

Which two steps will accomplish this task? (Choose two.)

A. Create an export policy setting local-preference 200 and next-hop self and apply it to the IBGP peers on R2.

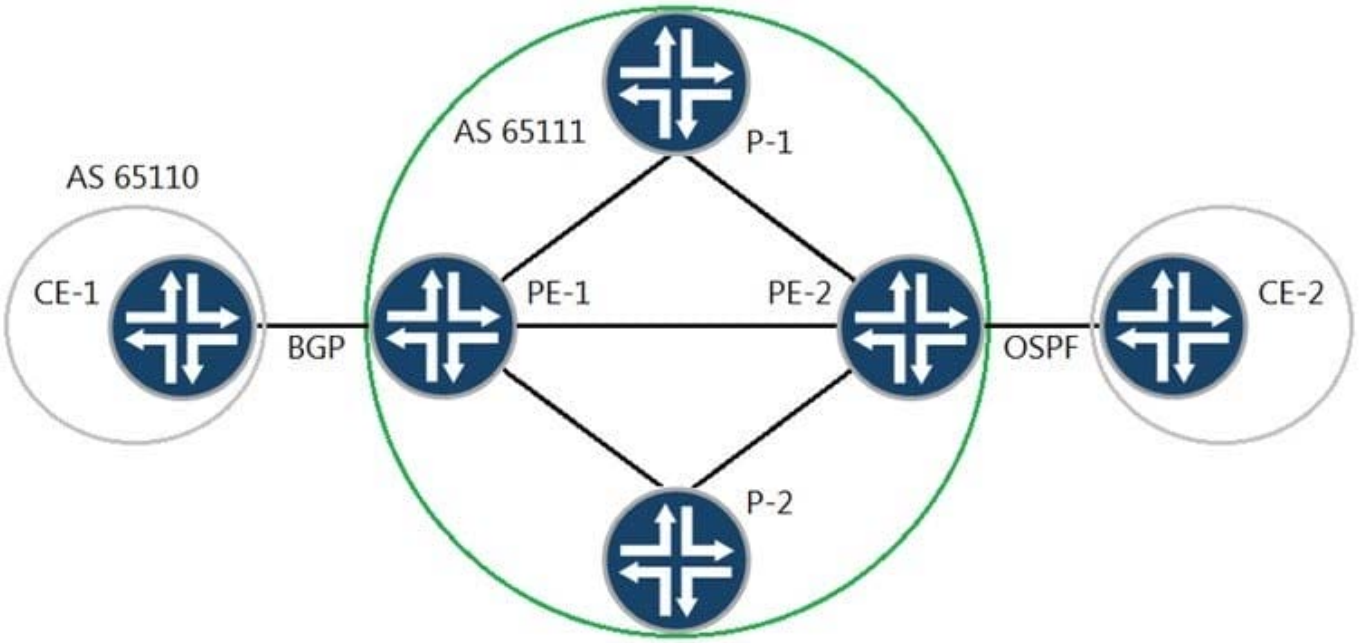
B. Create an export policy to prepend the ASN on advertised routes and apply it to the EBGP peer on R1.

C. Create an export policy to prepend the ASN on advertised routes and apply it to the EBGP peer on R2.

D. Create an export policy setting local-preference 200 and next-hop self and apply it to the IBGP peers on R1.

Correct Answer: CD

QUESTION 13



You have a Layer 3 VPN established between PE-1 and PE-2 to allow communication between CE-1 and CE-2. You want to establish communication between CE-1 and CE-2.

Referring to the exhibit, which statement is correct?

A. You will need a BGP export policy on PE-1 to redistribute the OSPF routes, learned from PE-2, to the CE1 BGP neighbor.

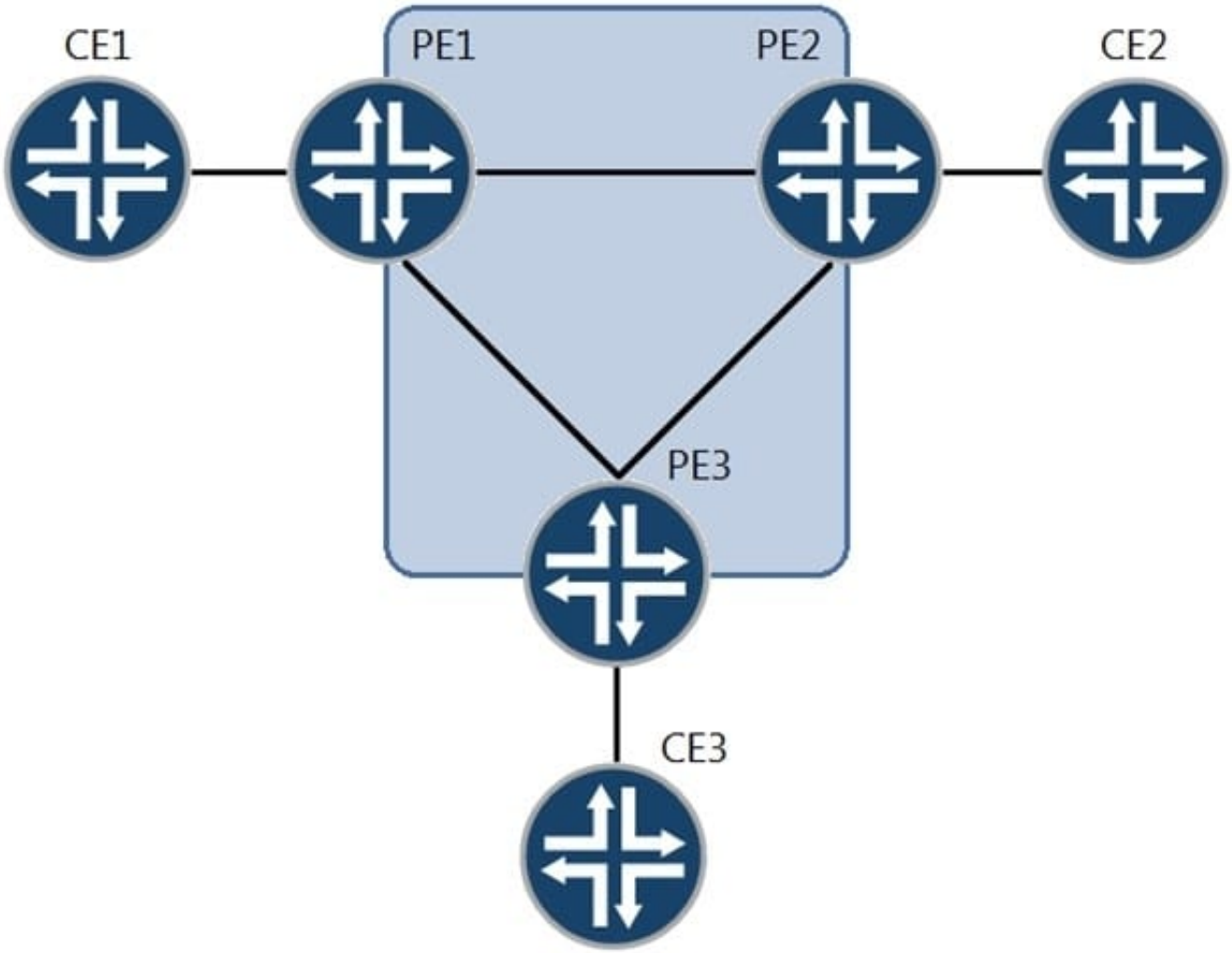
B. You will need a VRF import policy on PE-2 to advertise the OSPF routes, learned from CE-2, through the Layer 3 VPN.

C. You will need a VRF export policy on PE-2 to redistribute the OSPF routes, learned from CE-2, through the Layer 3 VPN.

D. You will need a VRF import policy on PE-1 to receive the OSPF routes, learned from PE-2, through the Layer 3 VPN.

Correct Answer: C

QUESTION 14



You are provisioning Layer 2 circuits between sites CE1, CE2, and CE3.

Referring to the exhibit, which statement is true?

A. A point-to-multipoint LSP must be created between sites.

B. Each site must have only one VLAN configured to the PE.

C. Site PE1 must have a point-to-multipoint link configured towards the core.

D. Two VLANs must be configured from PE 1 to CE 1.

Correct Answer: D

QUESTION 15

You are deploying a new EVPN service for your customers.

You must build the service based on the following requirements:

-both Layer 2 and Layer 3 functionality must be supported;

-your customers must be able to support multiple VLANs in the same EVPN instance (EVI).

In this scenario, which two types of routing instances should be configured? (Choose two.)

A. virtual switch

B. virtual router

C. VRF

D. EVPN

Correct Answer: CD