

## Exam Questions JN0-663

Service Provider Routing and Switching Professional (JNCIP-SP)

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#### NEW QUESTION 1

Exhibit.

Referring to the exhibit, which OSPFv3 configuration is implemented on router R1?

- A)
- B)
- C)
- D)

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** B

#### NEW QUESTION 2

Exhibit.

You are using EVPN to provide Layer 2 stretched VLANs between two sites You notice that the MAC addresses in either site are not showing up on the remote site.

Referring to the exhibit, what are two ways to solve this problem? (Choose two )

- A. On R1, issue the sec 3wicch-cpt:.cr.3 vrf-target target: 65101:22030 Command
- B. On R2 issue the set protocols evpn vni-options vni 22030 command
- C. On R1, issue the sec protocols evpn vni-options vni 22030 vrf-target target:65101:22030 command
- D. On R2, issue the set switch-options vrf-target target: 65101:22030 command

**Answer:** AD

### NEW QUESTION 3

Exhibit:

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. R1 cannot reach R5
- B. R1 will create its own default route that points to R2
- C. R2 will create a default route and send it as a TLV to R1
- D. R1 can reach R5.

**Answer:** CD

### NEW QUESTION 4

You have a mixed vendor EVPN environment and you need to ensure VXLAN interoperability between all devices In this scenario which statement is correct?

- A. You should only use Type 6 and Type 2 routes
- B. You should only use pure Type 2 routes
- C. You should only use Type 2 and Type 5 routes.
- D. You should only use pure Type 5 routes

**Answer:** C

### NEW QUESTION 5

Exhibit:

Which two statements regarding the output shown in the exhibit are correct? (Choose two.)

- A. The type of connection is remote.
- B. The type of connection is local.
- C. The PEs have matching control word values.
- D. The label associated with this virtual circuit is out of range.

**Answer:** AC

### NEW QUESTION 6

Exhibit.

You have the LDP signaled VPLS topology as shown in the exhibit CE-B at Site-2 is multihomed to both PE-2 and PE-3  
In this scenario where would you configure loop prevention?

- A. PE-2
- B. PE-3
- C. CE-B
- D. PE-1

**Answer:** D

#### NEW QUESTION 7

What is the purpose of the duster-list attribute within a BGP route reflector group?

- A. to disable internal cluster re-advertisements
- B. to define the router that first advertised the route to the route reflector
- C. to override the router ID value within the cluster
- D. to facilitate loop detection within the route reflector network

**Answer:** D

#### NEW QUESTION 8

Exhibit.

Two CE devices (CE-1 and CE-2) belong to the same customer and connect into a single PE device (PE-1). 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 auto-export-statement
- B. Configure both routing instances with the set routing-options autonomous-system loops 3 statement
- C. Configure both routing instances with the vrf-table-label statement
- D. Configure both routing instances with the as-override statement within the BGP protocol

**Answer:** A

#### NEW QUESTION 9

Exhibit.

Your router should be configured with a rewrite rule which alters the default behavior of expedited forwarding as shown in the exhibit. In this scenario, which configuration is correct?

- A)
- B)
- C)
- D)

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** C

#### NEW QUESTION 10

Exhibit:

Referring to the exhibit, a Layer 3 VPN is configured, however, the routes are being hidden. What is the problem?

- A. A route distinguisher mismatch exists between the peers.
- B. A VRF target community mismatch exists between the peers.
- C. The BGP peer is not reachable through the IGP.
- D. An active MPLS tunnel does not exist between the peers.

**Answer:** D

#### NEW QUESTION 10

You are considering different MPLS VPN connectivity options of a new customer deployment Your customer requires shared LSPs Layer 2 connectivity and auto-provisioning

Which type of VPN satisfies the requirements?

- A. BGP Layer 3 VPNs
- B. circuit cross-connects
- C. BGP Layer 2 VPNs
- D. LDP Layer 2 circuits

**Answer:** C

#### NEW QUESTION 13

Exhibit:

R4 is directly connected to both RPs (R2 and R3). R4 is currently sending all joins upstream to R3 but you want to load balance the joins between both RPs Referring to the exhibit, which configuration change will solve this issue?

- A. Configure the group-range parameter to be the same on R2 and RCA
- B. Configure the bootstrap priority on R2 to be the same as R3.
- C. Configure the default route in inet.2 on R4 from R3 as the next hop to both R3 and R2.
- D. Configure the join-load-balance parameter under PIM on R4.

**Answer:** D

#### NEW QUESTION 14

Referring to the ABR configuration shown in the exhibit, which three statements are correct? (Choose three.)

- A. The ABR advertises a default route to the NSSA using a Type 7 LSA.
- B. The ABR advertises a single Type 5 external LSA to the backbone area for all Type 7 LSAs in the NSSA.
- C. The ABR does not summarize any routes within the 192.168.16.0/20 range.
- D. The ABR advertises a Type 5 external LSA to the backbone area for each Type 7 LSA in the NSSA.
- E. The ABR advertises a single Type 3 summary LSA to the backbone area for all Type 1 and Type 2 LSAs in the 192.168.16 0/20 range.

**Answer:** ADE

#### NEW QUESTION 18

Exhibit:

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 to prepend the ASN on advertised routes and apply it to the EBGP peer on R1.
- B. Create an export policy setting local-preference 200 and next-hop self and apply it to the IBGP peers 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 R2.

**Answer:** BC

#### NEW QUESTION 22

Exhibit:

Referring to the exhibit, traffic sent from CE-A2 to PE3 does not loop back to CE-A2 through PE2. Which two EVPN functions accomplish this task? (Choose two.)

- A. split horizon
- B. aliasing
- C. multicast ingress replication
- D. designated forwarder election

**Answer:** AD

#### NEW QUESTION 23

Exhibit:

You must configure an OSPF virtual link to facilitate communication between Area 0 and Area 20.

Referring to the exhibit, which two addresses should you use as the neighbor IDs of the virtual link endpoints? (Choose two.)

- A. The address that is associated with R2's router ID.
- B. The address that is associated with R4's router ID.
- C. The address that is associated with R2's xe-1/2/0 interface.
- D. The address that is associated with R4's xe-0/0/1 interface.

**Answer:** AB

#### NEW QUESTION 26

Why do interprovider option B VPNs scale better than interprovider option A VPNs?

- A. The ASBRs in interprovider option B VPNs only carry internal routes.
- B. The ASBRs in interprovider option A VPNs do not need per-VPN VRF tables.
- C. The ASBRs in interprovider option A VPNs only carry internal routes.
- D. The ASBRs in interprovider option B VPNs do not need per-VPN VRF tables.

**Answer:** D

#### NEW QUESTION 27

Exhibit:

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

- A. RR2 adds its cluster ID when advertising routes from CHent4 to Client3.
- B. RR2 advertises routes learned from Client3 to EBGp2 with itself as the next hop.
- C. RR1 advertises routes learned from Client1 to RR2 with itself as the next hop.
- D. RR1 and RR2 need the same cluster ID to exchange routes learned from their clients.

**Answer:** AB

#### NEW QUESTION 31

Exhibit:

Referring to the exhibit, which statement is true?

- A. The route is learned from only one neighbor.
- B. This is a multipath route.
- C. The route is learned from three different neighbors.
- D. This is a multihop route.

**Answer:** D

#### NEW QUESTION 33

Exhibit.

R2 has IS-IS adjacencies with R3 and R4 You want to ensure that R2 has both a level 1 and level 2 adjacency to both R3 and R4 but R2 only has one adjacency with R4.

Referring to the exhibit, which configuration change will solve this issue?

- A. Change the IS-IS area on R2 to match R4.
- B. Change the IS-IS area on R4 to match R2
- C. Remove the level 1 disable configuration from R4
- D. Remove the level 1 disable configuration from R2

**Answer:** B

#### NEW QUESTION 34

You are establishing a Layer 3 VPN between two PE devices Currently you have a single internal IPv4 BGP peering between the PE devices. You must ensure that the IPv4 and IPv6 routes from both CE devices are exchanged between these sites

Which two statements are correct in this scenario? (Choose two.)

- A. You must establish an IPv6 BGP peering between the two PEs
- B. You must enable the inet-vpn NLR on both PE devices.
- C. You must enable the inet6-vpn NLRI on both PE devices.
- D. You must enable IPv6 tunneling on the LSPs between the PE devices

**Answer:** BC

#### NEW QUESTION 35

Exhibit.

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)
- B)
- C)
- D)

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** C

#### NEW QUESTION 36

Exhibit:

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

- A. An AS loop will not exist between CE-1 and CE-2 and the BGP routes will be shared.
- B. The CE-1 and CE-2 routes will have the same route distinguisher, which will stop the BGP routes from being shared.
- C. An AS loop will exist between CE-1 and CE-2 and the BGP routes will not be shared.
- D. The CE-1 and CE-2 routes will have the same route distinguisher, which will not stop the BGP routes from being shared.

**Answer:** CD



#### NEW QUESTION 40

You recently deployed CoS-based forwarding in your network, which uses OSPF as its IGP. You notice that the forwarding of traffic has not changed and is not following the path indicated within your configuration. In this scenario, which statement explains this behavior?

- A. The defined policy has not been applied under [edit class-of-service forwarding-policy
- B. The defined policy references interface names as the next-hops instead of IP addresses.
- C. Load balancing has not been enabled under [edit forwarding-options.
- D. The defined policy references IP addresses as the next-hops instead of interface names

**Answer:** D

#### NEW QUESTION 45

You are creating a new LDP signaled Layer 2 circuit between three customer sites. In this scenario, which two statements are correct? (Choose two.)

- A. LDP is used to exchange the virtual circuit labels with other PEs.
- B. You are allowed to tunnel your LDP sessions through RSVP LSPs.
- C. You are not allowed to use any RSVP-signaled LSPs in your core network.
- D. BGP is used to exchange the virtual circuit labels with other PEs.

**Answer:** AB

#### NEW QUESTION 47

Exhibit:

Referring to the exhibit, hosts in Site 1 and Site 2 are unable to communicate with each other through the Layer 3 VPN. What is the problem?

- A. The two sites are using the same route distinguishes.
- B. The two sites are in the same AS.
- C. The two sites are using the same instance type.
- D. The two sites are using the same route target.

**Answer:** B

#### NEW QUESTION 49

Exhibit.

Referring to the exhibit, which statement is true?

- A. The BGP session between R1 and R2 will fail to establish correctly due to an NLRI mismatch
- B. The BGP session between R1 and R2 will establish correctly and the met unicast and the met6 unicast NLRIs will pass routing information
- C. The BGP session between R1 and R2 will establish correctly and only the inet6 unicast NLRI will pass routing information
- D. The BGP session between R1 and R2 will establish correctly and only the met unicast NLRI will pass routing information

**Answer:** B

#### NEW QUESTION 54

Exhibit:

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

- A. R1 -> R2 -> R4 -> R6
- B. R1 -> R2 -> R3 -> R6
- C. R1 -> R3 -> R5 -> R6
- D. R1 -> R3 -> R4 -> R6

**Answer:** C

#### NEW QUESTION 58

Exhibit.

Referring to the exhibit, which command would reduce the size of the OSPF database and corresponding routes?

A)

B)

C)

D)

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** D

#### NEW QUESTION 61

Exhibit.

You manage an MX Series device which includes the configuration shown in the exhibit Traffic marked with DSCP 000011 is entering the ge-1/0/4 interface at 102 Mbps The traffic exits the device on the ge-1 '0/5 interface No other traffic is transiting the router In this scenario what happens to traffic exceeding 100 Mbps?

- A. Traffic exceeding 100 Mbps is redirected to a rate limiter.
- B. Traffic exceeding 100 Mbps Is buffered
- C. Traffic exceeding 100 Mbps is forwarded.
- D. Traffic exceeding 100 Mbps is dropped

**Answer:** C

#### NEW QUESTION 64

Which two types of LSAs have an area scope? (Choose two)

- A. Type5
- B. Type 2
- C. Type 7

D. Type 11

**Answer:** BD

#### NEW QUESTION 66

Exhibit.

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 VRF import policy on PE-2 to advertise the OSPF routes learned from CE-2 through the Layer 3 VPN
- B. You will need a VRF export policy on PE-2 to redistribute the OSPF routes learned from CE-2. through the Layer 3 VPN
- C. You will need a BGP export policy on PE-1 to redistribute the OSPF routes learned from PE-2 to the CE1 BGP neighbor
- 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

**Answer:** B

#### NEW QUESTION 68

Which two statements regarding ingress replication in EVPN are correct? (Choose two.)

- A. Ingress replication will replicate all BUM traffic to all remote PEs in the EVI.
- B. Ingress replication relies on PIM to build the multicast replication tree.
- C. Ingress replication labels are learned from remote PEs through the EVPN Type-3 route.
- D. Ingress replication is only supported in vrf-type routing instances.

**Answer:** AC

#### NEW QUESTION 72

Exhibit:

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

- A. 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.
- B. 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.
- C. Write an export policy on R4 from level 2 to level 1 matching the external routes.
- D. Write an export policy on R2 from level 1 to level 2 matching the external routes.

**Answer:** A

#### NEW QUESTION 76

You want to allow the load balancing of traffic for an EBGP route from two different peers in the same AS. Which three actions are needed to accomplish this task? (Choose three.)

- A. A policy to load-balance traffic should be applied to the forwarding table

- B. At least two interfaces should be connected to the same EBGp neighbor
- C. The multihop parameter should be configured under protocols BGP
- D. The multipath parameter should be configured under protocols BGP
- E. An equal cost AS path for the route is required.

**Answer:** ADE

#### NEW QUESTION 79

You are configuring a BGP signaled Layer 2 VPN across your MPLS enabled core network. In this scenario, which statement is correct?

- A. You must ensure that all interfaces within the site's configuration are explicitly defined with their remote site identifier values.
- B. This type of VPN requires the support of the l2vpn signaling NLRI on all route reflectors and participating PE devices.
- C. You must use a unique route distinguisher value on all PE devices in your environment.
- D. This type of VPN is only supported over LSPs that are using traffic-engineering.

**Answer:** B

#### NEW QUESTION 81

Exhibit:

R2 is receiving a route from R1 and you must ensure that the route is not advertised to R3.  
Referring to the exhibit, which two configurations on R2 will solve the issue? (Choose two.)

- A. Apply the no-export policy as an import policy under group 65001
- B. Apply the no-advertise policy as an export policy under group 65003
- C. Apply the no-export policy as an export policy under group 65003
- D. Apply the no-advertise policy as an import policy under group G5001

**Answer:** BD

#### NEW QUESTION 83

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. VRF
- B. virtual switch
- C. virtual router
- D. EVPN

**Answer:** AD

#### NEW QUESTION 86

Exhibit.

You are providing camer-of-carner VPN services for AS 100 and AS 200 You want to distribute MPLS labels between your PE routers and the AS 100 and AS 200 CE routers.

What must be enabled to accomplish this task?

- A. Use BGP with the labeled-unicast address family enabled
- B. Use RSVP with the tunnel-services parameter enabled
- C. Use BGP with the inet-vpn address family enabled
- D. Use RSVP with the lsp-set parameter enabled

**Answer:** C

#### NEW QUESTION 87

Exhibit:

You are troubleshooting an issue where R1 is no longer receiving the default IS-IS route from R3. Referring to the exhibit, which action would you take to solve the problem?

- A. Delete the protocols isis ignore-attached-bit configuration statement on R3.
- B. Delete the protocols isis import configuration statement on R1.
- C. Delete the protocols isis level 2 disable configuration statement on R3.
- D. Delete the protocols isis ignore-attached-bit configuration statement on R1.

**Answer: D**

#### NEW QUESTION 91

Exhibit:

The exhibit shows a BGP peering session for two PE routers. The BGP session is up, but the hosts in the Layer 2 VPN that uses the BGP session are unable to communicate.

What is the problem in this situation?

- A. The BGP peer does not support the restarter functionality.
- B. The local BGP router does not support Layer 2 VPN and Layer 3 VPN NLRI address families at the same time.
- C. There is a mismatch in the supported NLRI address families between the BGP peers.
- D. The BGP peer does not support the add-path feature.

**Answer: C**

#### NEW QUESTION 96

What occurs when a router running IS-IS receives an LSP with the overload bit set?

- A. The LSP is not added to the link-state database.
- B. The LSP's metric will be set to 65535.
- C. The LSP is ignored during SPF calculation.
- D. The LSPs metric will be set to 16777215.

**Answer: D**

#### NEW QUESTION 100

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