

## Cisco.300-420.v2021-09-12.q82

<b>Exam Code:</b>	300-420
<b>Exam Name:</b>	Designing Cisco Enterprise Networks
<b>Certification Provider:</b>	Cisco
<b>Free Question Number:</b>	82
<b>Version:</b>	v2021-09-12
<b># of views:</b>	1688
<b># of Questions views:</b>	820
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### NEW QUESTION: 1

Refer to the exhibit. Area 10 is a regular OSPF area and networks 10.1.1.0/24 and 172.16.1.0/24 are internal.

Which design provides optimal routing between both networks when the link between routers C and E fails?

- A. Create a tunnel between routers E and F in area 10.
- B. Create an OSPF virtual link between routers E and F.
- C. Make area 10 a not-so-stubby area.
- D. Move the link between routers C and D to area 10.

**Answer: D** ([LEAVE A REPLY](#))

### NEW QUESTION: 2

An engineer is tasked with designing a dual BGP peering solution with a service provider. The design must meet these conditions:

- \* The routers will not learn any prefix with a subnet mask greater than /24.
- \* The routers will determine the routes to include in the routing table based on the length of the mask alone.
- \* The routers will make this selection regardless of the service provider configuration.

Which solution should the engineer include in the design?

- A. Use a route map and prefix list to block the desired networks, and apply the route map to BGP neighbors outbound.
- B. Use a route map and access list to block the desired networks, and apply the route map to BGP neighbors inbound.
- C. Use an IP prefix list to block the desired networks and apply the IP prefix list to BGP neighbors inbound.
- D. Use an IP prefix list to block the desired networks and apply the IP prefix list to BGP neighbors outbound.

**Answer: C ([LEAVE A REPLY](#))**

**NEW QUESTION: 3**

An architect is designing a multicast solution for a network that contains over 100 routers. The architect plans to create several multicast domains and balance the PIM-SM traffic within the network. Which technology should the architect include in the design?

- A. MSDP
- B. IGMP
- C. MOSPF
- D. DVMRP

**Answer: A ([LEAVE A REPLY](#))**

**NEW QUESTION: 4**

When a first hop redundancy solution is designed, which protocol ensures that load balancing occurs over multiple routers using a single virtual IP address and multiple virtual MAC addresses?

- A. HSRP
- B. VRRP
- C. IRDP
- D. GLBP

**Answer: ([SHOW ANSWER](#))**

**NEW QUESTION: 5**

A customer requests a VPN solution to connect multiple sites with the company headquarters. All the sites use the same IP subnet. The engineer plans to use VPLS. Which solutions must the engineer include in the design?

- A. different VLANs on each site
- B. address translation to hide overlapping subnets
- C. 802.1Q connectivity on the LAN side of the CE
- D. route exchange with the service provider

**Answer: C ([LEAVE A REPLY](#))**

**NEW QUESTION: 6**

Refer to the exhibit.

An engineer is designing an OSPF network for a client. Requirements dictate that the routers in Area 1 should receive all routes belonging to the network, including EIGRP, except the ones originated in the RIP domain. Which action should the engineer take?

- A. Make area 1 a NSSA.
- B. Make area 1 a standard OSPF area.
- C. Make area 1 a stub.
- D. Make the area 1 routers part of area 0.

**Answer: ([SHOW ANSWER](#))**

**NEW QUESTION: 7**

Which control-plane technology allows the same subnet to exist across multiple network locations?

- A. VXLAN
- B. ISE mobility services
- C. LISP
- D. FabricPath

**Answer: C** ([LEAVE A REPLY](#))

**NEW QUESTION: 8**

Which two border nodes are available in the Cisco SD-Access architecture? (Choose two.)

- A. extended border
- B. edge border
- C. internal border
- D. anywhere border
- E. intermediate border

**Answer: A,D** ([LEAVE A REPLY](#))

Section: Advanced Enterprise Campus Networks

**NEW QUESTION: 9**

Which two statements describe source trees in a multicast environment? (Choose two.)

- A. Source trees guarantee the minimum amount of network latency for forwarding multicast traffic
- B. Source trees create an optimal path between the source and the receivers
- C. Source trees use a single common root placed at some chosen point in the network
- D. Source trees can introduce latency in packet delivery
- E. Source trees can create suboptimal paths between the source and the receivers

**Answer: (SHOW ANSWER)**

Section: Network Services

**NEW QUESTION: 10**

Which two statements about VRRP advertisements are true? (Choose two.)

- A. They include VRRP timer information.
- B. They are sent only from the master router.
- C. They include priority information.
- D. They are sent from the master router and standby routers.
- E. They are sent every three seconds by default.

**Answer: B,C** ([LEAVE A REPLY](#))

**NEW QUESTION: 11**

How is redundancy achieved among Cisco vBond Orchestrators in a Cisco SD-WAN deployment?

- A. The closest Orchestrator to each Cisco WAN Edge router is selected.
- B. The IP addresses of all Orchestrators are mapped to a single DNS name.
- C. A single Cisco Orchestrator is deployed in each network.
- D. Cisco WAN Edge routers are configured with all Orchestrators using their IP addresses and priority.

**Answer: B** ([LEAVE A REPLY](#))

#### **NEW QUESTION: 12**

An organization is designing a detailed QoS plan that limits bandwidth to specific rates. Which two parameters are supported by the traffic policing feature? (Choose two.)

- A. violating
- B. marking
- C. bursting
- D. conforming
- E. shaping

**Answer: B,E** ([LEAVE A REPLY](#))

#### **NEW QUESTION: 13**

Which OSPF area blocks LSA Type 3, 4 and 5, but allows a default summary route?

- A. normal
- B. stub
- C. NSSA
- D. totally stubby

**Answer: D** ([LEAVE A REPLY](#))

Section: Advanced Addressing and Routing Solutions

#### **NEW QUESTION: 14**

How do endpoints inside an SD-Access network reach resources outside the fabric?

- A. a VRF fusion router is used to map resources in one VN to another VN
- B. A fabric edge is used to de-encapsulate VXLAN traffic to normal IP traffic then transported over the outside network
- C. SD-Access transit links are used to transport encapsulated traffic from one fabric to another
- D. Fabric borders use VRFs to map VNs to VRFs

**Answer: (SHOW ANSWER)**

#### **NEW QUESTION: 15**

When designing interdomain multicast, which two protocols are deployed to achieve communication between multicast sources and receivers? (Choose two.)

- A. MP-BGP

- B. IGMPv2
- C. MSDP
- D. MLD
- E. BIDIR-PIM

**Answer: A,C ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 16**

Refer to the exhibit. EIGRP has been configured on all links. The spoke nodes have been configured as EIGRP stubs, and the WAN links to R3 have higher bandwidth and lower delay than the WAN links to R4.

When a link failure occurs at the R1-R2 link, what happens to traffic on R1 that is destined for a subnet attached to R2?

- A. R1 has no route to R2 and drops the traffic
- B. R1 load-balances across the paths through R3 and R4 to reach R2
- C. R1 forwards the traffic to R3, but R3 drops the traffic
- D. R1 forwards the traffic to R3 in order to reach R2

**Answer: D ([LEAVE A REPLY](#))**

Section: Advanced Addressing and Routing Solutions

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#### **NEW QUESTION: 17**

A network engineer is redesigning a company's QoS solution. The company is currently using IP Precedence, but the engineer plans to move to DiffServ. It is important that the new solution provide backward compatibility with the current solution. Which technology should the design include?

- A. expedited forwarding
- B. assured forwarding
- C. class selector code points
- D. default per hop behavior

**Answer: C ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 18**

Which two options can you use to configure an EIGRP stub router? (Choose two)

- A. not-so-stubby
- B. totally-stubby
- C. receive-only
- D. summary
- E. summary-only
- F. external

**Answer: C,D ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 19**

An architect is designing a network that will utilize the spanning tree protocol to ensure a loop-free topology.

The network will support an engineering environment where it is necessary for end users to connect their own network switches for testing purposes. Which feature should the architect include in the design to ensure the spanning tree topology is not affected by these rogue switches?

- A. BPDU Skew Detection
- B. BPDU guard
- C. loop guard
- D. root guard

**Answer: ([SHOW ANSWER](#))**

#### **NEW QUESTION: 20**

What are two valid scaling techniques when an EIGRP network is designed that consists of more than 1000 routers? (Choose two.)

- A. Implement multiple EIGRP autonomous systems
- B. Modify delay parameters on the links
- C. Use structured hierarchical topology with route summarization
- D. Use the distribute-list command to filter routes
- E. Used sub-second timers

**Answer: A,C ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 21**

Which two steps can be taken to improve convergence in an OSPF network? (Choose two.)

- A. Span the same IP network across multiple areas.
- B. Make all non-backbone areas stub areas
- C. Use Bidirectional Forwarding Detection
- D. Merge all the areas into one backbone area
- E. Tune OSPF parameters

**Answer: C,E ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 22**

An engineer is designing an EIGRP network for a small branch site where there is only one Layer 3 router. The engineer wants the router to advertise the local LAN network to remote EIGRP neighbors without sending any unnecessary multicast messages on the local LAN. Which action should the engineer take?

- A. Use a static default route for this site instead of EIGRP
- B. Advertise the local LAN subnet as a stub network
- C. Advertise the local LAN using the network command and the passive-interface feature
- D. Redistribute the local LAN network using the redistribute connected command

**Answer: C** ([LEAVE A REPLY](#))

#### **NEW QUESTION: 23**

Refer to the exhibit. An engineer is designing an OSPF network for a client. Requirements dictate that the routers in Area 1 should receive all routes belonging to the network, including EIGRP, except the ones originated in the RIP domain. Which action should the engineer take?

- A. Make area 1 a NSSA.
- B. Make the area 1 routers part of area 0.
- C. Make area 1 a stub.
- D. Make area 1 a standard OSPF area.

**Answer: (**[SHOW ANSWER](#)**)**

#### **NEW QUESTION: 24**

Refer to the exhibit. Area 10 is a regular OSPF area and networks 10.1.1.0/24 and 172.16.1.0/24 are internal.

Which design provides optimal routing between both networks when the link between routers C and E fails?

- A. Move the link between routers C and D to area 10.
- B. Create an OSPF virtual link between routers E and F.
- C. Create a tunnel between routers E and F in area 10.
- D. Make area 10 a not-so-stubby area.

**Answer: A** ([LEAVE A REPLY](#))

Section: Advanced Addressing and Routing Solutions

Explanation/Reference:

#### **NEW QUESTION: 25**

An engineer must design a solution to connect a customer to the Internet. The solution will include a Layer 3 circuit with a CIR of 50 Mbps from the service provider. The hand-off from the provider's switch to the customer's router is 1Gbps. Which solution should the engineer include to prevent potential issues with choppy voice traffic?

- A. Reduce the bandwidth of the connection to the router.
- B. Implement hierarchical QoS with a parent policing policy.
- C. Implement hierarchical QoS with a parent shaping policy.

D. Add a bandwidth statement to the router interface.

**Answer: C (LEAVE A REPLY)**

Section: WAN for Enterprise Networks

### NEW QUESTION: 26

An engineer must design a solution to connect a customer to the Internet. The solution will include a Layer 3 circuit with a CIR of 50 Mbps from the service provider. The hand-off from the provider's switch to the customer's router is 1Gbps. Which solution should the engineer include to prevent potential issues with choppy voice traffic?

- A. Reduce the bandwidth of the connection to the router.
- B. Add a bandwidth statement to the router interface.
- C. Implement hierarchical QoS with a parent policing policy.
- D. Implement hierarchical QoS with a parent shaping policy.

**Answer: D (LEAVE A REPLY)**

### NEW QUESTION: 27

Refer to the exhibit.

EIGRP has been configured on all links. The spoke nodes have been configured as EIGRP stubs, and the WAN links to R3 have higher bandwidth and lower delay than the links to R4. When a link failure occurs at the R1-R2 link, what happens to traffic on R1 that is destined for a subnet attached to R2?

- A. R1 has no route to R2 and drops the traffic
- B. R1 forwards the traffic to R3 in order to reach R2
- C. R1 load-balances across the paths through R3 and R4 to reach R2
- D. R1 forwards the traffic to R3, but R3 drops the traffic

**Answer: B (LEAVE A REPLY)**

### NEW QUESTION: 28

Which consideration must be taken into account when using the DHCP relay feature in a Cisco SD-Access Architecture?

- A. A DHCP server must be enabled on the border nodes to allow subnets to span multiple fabric edges.
- B. DHCP-relay must be enabled on fabric edge nodes to provide the correct mapping of DHCP scope to the local anycast gateway.
- C. DHCP servers must support Cisco SD-Access extensions to correctly assign IPs to endpoints in an SDAccess fabric with anycast gateway.
- D. DHCP Option-82 must be enabled to map the circuit IP option to the access fabric node where the DHCP discover originated.

**Answer: B (LEAVE A REPLY)**

### NEW QUESTION: 29

A client is moving to Model-Driven Telemetry and requires periodic updates.

What must the network architect consider with this design?

- A. Periodic updates include a full copy of the data that is subscribed to.
- B. Empty data subscriptions do not generate empty update notifications.
- C. Updates that contain changes within the data are sent only when changes occur.
- D. The primary push update is sent immediately and cannot be delayed.

**Answer:** ([SHOW ANSWER](#))

### NEW QUESTION: 30

When designing interdomain multicast, which two protocols are deployed to achieve communication between multicast sources and receivers? (Choose two.)

- A. IGMPv2
- B. BIDIR-PIM
- C. MP-BGP
- D. MSDP
- E. MLD

**Answer:** C,D ([LEAVE A REPLY](#))

Section: Network Services

### NEW QUESTION: 31

Drag and drop the components in a Cisco SD-Access architecture from the left onto their descriptions on the right.

**Answer:**

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### NEW QUESTION: 32

A branch office has a primary L3VPN MPLS connection back to the main office and an IPSEC VPN tunnel that serves as backup. Which design ensures that data is sent over the backup connection only if the primary MPLS circuit is down?

- A. Use BGP with the multipath feature enabled to force traffic via the primary path when available.
- B. Use static routes tied to an IP SLA to prefer the primary path while a floating static route points to the backup connection.

C. Use EIGRP to establish a neighbor relationship with the main office via L3VPN MPLS and the IPSEC VPN tunnel.

D. Use OSPF with a passive-interface

**Answer: B ([LEAVE A REPLY](#))**

### **NEW QUESTION: 33**

Refer to the exhibit. Customers report low video quality and delays when having point-to-point telepresence video calls between the two locations. An architect must optimize a design so that traffic follows the same path for egress and ingress traffic flows. Which technique optimizes the design?

A. Configure route leaking on the router in area 2.

B. Configure route leaking on the router in area 1.

C. Configure the high metric on the router in area 4.

D. Configure route filter on the router in area 4.

**Answer: C ([LEAVE A REPLY](#))**

Section: WAN for Enterprise Networks

### **NEW QUESTION: 34**

Refer to the exhibit.

An engineer must optimize the traffic flow of the network. Which change provides a more efficient design between the access and the distribution layer?

A. Change the link between distribution switch A and distribution switch B to be a routed link

B. Create an EtherChannel link between distribution switch A and distribution switch B

C. Reconfigure the distribution switch A to become the HSRP Active

D. Add a link between access switch A and access switch B

**Answer: C ([LEAVE A REPLY](#))**

### **NEW QUESTION: 35**

Refer to the exhibit. An architect must design an IP addressing scheme for a multisite network connected via a WAN transit. The campus site must accommodate 12,000 devices and the branch sites must accommodate

1,000 devices. Which address scheme optimizes network device resources, contains convergence events to the different blocks of the network, and ensures future growth of the network?

\* \* Campus: 10.0.0.0/18

\* Branch1: 10.0.192.0/21

\* Branch2: 10.0.200.0/21

\* \* Campus: 10.0.0.0/16

\* Branch1: 10.255.0.0/20

\* Branch2: 10.255.16.0/20

\* \* Campus: 10.0.0.0/10

- \* Branch1: 10.64.0.0/10
- \* Branch2: 10.128.0.0/10
- \* \* Campus: 10.0.0.0/20

A. Branch2: 10.0.128.0/21

B. Branch1: 10.0.64.0/21

**Answer: B ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 36**

Drag and drop the characteristics from the left onto the correct telemetry mode on the right.

**Answer:**

Explanation

In a dial-in mode, the destination initiates a session to the router and subscribes to data to be streamed. Dialin mode is supported over gRPC in only 64-bit platforms In a dial-out mode, the router initiates a session to the destinations based on the subscription. All 64-bit IOS XR platforms (except for NCS 6000 series routers) support gRPC and TCP protocols. All 32-bit IOS XR platforms support only TCP.

#### **NEW QUESTION: 37**

Which two statements describe source trees in a multicast environment? (Choose two.)

- A. Source trees guarantee the minimum amount of network latency for forwarding multicast traffic
- B. Source trees use a single common root placed at some chosen point in the network
- C. Source trees can create suboptimal paths between the source and the receivers
- D. Source trees can introduce latency in packet delivery
- E. Source trees create an optimal path between the source and the receivers

**Answer: A,E ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 38**

A company is using OSPF between its HQ location and a branch office. HQ is assigned area 0 and the branch office is assigned area 1. The company purchases a second branch office, but due to circuit delays to HQ, it decides to connect the new branch office to the existing branch office as a temporary measure. The new branch office is assigned to area 2. Which OSPF configuration enables all three locations to exchange routes?

- A. The existing branch office must be configured as a stub area
- B. A virtual link must be configured between the new branch office and HQ
- C. A sham link must be configured between the new branch office and HQ
- D. The new branch office must be configured as a stub area

**Answer: B ([LEAVE A REPLY](#))**

Section: Advanced Addressing and Routing Solutions

#### **NEW QUESTION: 39**

An engineer must design an addressing plan for a small business using a single /24 network. Each department must have its own subnet. Drag and drop the subnets from the left onto the departments requirements that they fulfill on the right. Not all options are used.

**Answer:**

**NEW QUESTION: 40**

Which routes does the overlay management protocol advertise in an SD-WAN overlay?

- A. underlay, MPLS, and overlay
- B. primary, backup, and load-balanced
- C. prefix, TLOC, and service
- D. Internet, MPLS, and backup

**Answer:** ([SHOW ANSWER](#))

Section: WAN for Enterprise Networks

**NEW QUESTION: 41**

An engineer must propose a solution for a campus network that includes the capability to create multiple Layer 3 virtual networks. Each network must have its own addressing structure and routing table for data forwarding. The solution must be scalable to support hundreds of virtual networks and allow simple configuration and management with minimal administrative overhead. Which solution does the engineer recommend?

- A. hop-by-hop EVN
- B. multihop IPsec tunneling
- C. multihop MPLS core
- D. hop-by-hop VRF-Lite

**Answer:** A ([LEAVE A REPLY](#))

**NEW QUESTION: 42**

Refer to the exhibit.

An engineer must optimize the traffic flow of the network. Which change provides a more efficient design between the access and the distribution layer?

- A. Change the link between distribution switch A and distribution switch B to be a routed link
- B. Add a link between access switch A and access switch B
- C. Create an EtherChannel link between distribution switch A and distribution switch B
- D. Reconfigure the distribution switch A to become the HSRP Active

**Answer:** D ([LEAVE A REPLY](#))

**NEW QUESTION: 43**

DRAG DROP

Drag and drop the characteristics from the left onto the correct telemetry mode on the right.

Select and Place:

**Answer:**

Explanation:

In a dial-in mode, the destination initiates a session to the router and subscribes to data to be streamed. Dial-in mode is supported over gRPC in only 64-bit platforms. In a dial-out mode, the router initiates a session to the destinations based on the subscription. All 64-bit IOS XR platforms (except for NCS 6000 series routers) support gRPC and TCP protocols. All 32-bit IOS XR platforms support only TCP.

Reference:

[https://www.cisco.com/c/en/us/td/docs/iosxr/asr9000/telemetry/b-telemetry-cg-asr9000-61x/b-telemetry-cg-asr9000-61x\\_chapter\\_010.html#id\\_36445](https://www.cisco.com/c/en/us/td/docs/iosxr/asr9000/telemetry/b-telemetry-cg-asr9000-61x/b-telemetry-cg-asr9000-61x_chapter_010.html#id_36445)

#### **NEW QUESTION: 44**

A company is running BGP on a single router, which has two connections to the same ISP. Which BGP feature ensures traffic is load balanced across the two links to the ISP?

- A. Next-Hop Address Tracking
- B. Multipath Load Sharing
- C. Multihop
- D. AS-Path Prepending

**Answer: B** ([LEAVE A REPLY](#))

#### **NEW QUESTION: 45**

A network engineer must segregate three interconnected campus networks using IS-IS routing. A two-layer hierarchy must be used to support large routing domains and to avoid more specific routes from each campus network being advertised to other campus network routers automatically. Which two actions does the engineer take to accomplish this segregation? (Choose two.)

- A. Designate two IS-IS routers as BDR routers at the edge of each campus, and configure one BDR for all Level 1 routers and one BDR for all Level 2 routers.
- B. Designate two IS-IS routers from each campus to act as Level 1/Level 2 backbone routers at the edge of each campus network.
- C. Assign the same IS-IS NET value for each campus, and configure internal campus routers with Level 1/ Level 2 routing.
- D. Utilize different MTU values for each campus network segment. Level 2 backbone routers must utilize a larger MTU size of 9216.
- E. Assign a unique IS-IS NET value for each campus, and configure internal campus routers with Level 1 routing.

**Answer: B,E** ([LEAVE A REPLY](#))

Section: Advanced Enterprise Campus Networks

#### **NEW QUESTION: 46**

What is the purpose of a control plane node in a Cisco SD-Access network fabric?

- A. to identify and authenticate endpoints within the network fabric

- B. to maintain the endpoint database and mapping between endpoints and edge nodes
- C. to act as the network gateway between the network fabric and outside networks
- D. to detect endpoints in the fabric and inform the host tracking database of EID-to-fabric-edge node bindings

**Answer: D ([LEAVE A REPLY](#))**

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#### **NEW QUESTION: 47**

A customer's current Layer 2 infrastructure is running Spanning Tree 802.1d, and all configuration changes are manually implemented on each switch. An architect must redesign the Layer 2 domain to achieve these goals:

- \* reduce the impact of topology changes
- \* reduce the time spent on network administration
- \* reduce manual configuration errors

Which two solutions should the architect include in the new design? (Choose two.)

- A. Implement Rapid PVST+ instead of STP.
- B. Implement MST instead of STP.
- C. Use VTP to propagate VLAN information and to prune unused VLANs.
- D. Configure broadcast and multicast storm control on all switches.
- E. Configure dynamic trunking protocol to propagate VLAN information.

**Answer: ([SHOW ANSWER](#))**

Section: Advanced Enterprise Campus Networks

#### **NEW QUESTION: 48**

Which two routing protocols allow for unequal cost load balancing? (Choose two.)

- A. BGP
- B. EIGRP
- C. RIPng
- D. OSPF
- E. IS-IS

**Answer: ([SHOW ANSWER](#))**

#### **NEW QUESTION: 49**

An engineer must propose a QoS architecture model that allows an application to inform the network of its traffic profile and to request a particular type of service to support its bandwidth and delay requirements. The application requires consistent and dedicated bandwidth end to end. Which QoS architecture model meets these requirements?

- A. DiffServ
- B. LLQ
- C. WRED
- D. IntServ

**Answer: D** ([LEAVE A REPLY](#))

Section: Network Services

#### **NEW QUESTION: 50**

Which two functions are provided by the Cisco SD-WAN orchestration plane? (Choose two.)

- A. Zero Touch Provisioning
- B. NAT traversal facilitation
- C. troubleshooting and monitoring
- D. primary authentication point
- E. centralized provisioning

**Answer: B,D** ([LEAVE A REPLY](#))

#### **NEW QUESTION: 51**

Refer to the exhibit. Which two solutions maximize the use of the links between the core and distribution layers? (Choose two.)

- A. use multiple equal-cost links
- B. use an IGP
- C. use HSRP
- D. use RPVSTP+
- E. use multiple unequal-cost links

**Answer: (SHOW ANSWER)**

Section: Advanced Enterprise Campus Networks

#### **NEW QUESTION: 52**

What is the function of the multicast Reverse Path Forwarding check?

- A. It is used to discover and announce RP-set information.
- B. It allows for a loop-free distribution tree from the source to receivers.
- C. It prevents bootstrap messages from reaching all routers.
- D. It serves as an Auto RP Mapping agent.

**Answer: (SHOW ANSWER)**

#### **NEW QUESTION: 53**

What is the role of a control-plane node in a Cisco SD-Access architecture?

- A. map system that manages External Layer 3 networks
- B. fabric device that connects APs and wireless endpoints to the SD-Access fabric
- C. map system that manages endpoint to device relationships
- D. fabric device that connects wired endpoints to the SD-Access fabric

**Answer: C ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 54**

A router running ISIS is showing high CPU and bandwidth utilization. An engineer discovers that the router is configured as L1/L2 and has L1 and L2 neighbors. Which step optimizes the design to address the issue?

- A. Configure each interface as either L1 or L2 circuit type
- B. Disable the default behavior of advertising the default route on the L1/L2 router
- C. Make this router a DIS for each of the interfaces
- D. Configure the router to be either L1 or L2

**Answer: A ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 55**

An enterprise customer has these requirements:

- \* end-to-end QoS for the business-critical applications and VoIP services based on CoS marking.
- \* flexibility to offer services such as IPv6 and multicast without any reliance on the service provider.
- \* support for full-mesh connectivity at Layer 2.

Which WAN connectivity option meets these requirements?

- A. VPLS
- B. VPWS
- C. MPLS VPN
- D. DMVPN

**Answer: ([SHOW ANSWER](#))**

#### **NEW QUESTION: 56**

An engineer must design a multicast network for a financial application. Most of the multicast sources also receive multicast traffic (many-to-many deployment model). To better scale routing tables, the design must not use source trees. Which multicast protocol satisfies these requirements?

- A. MSDP
- B. BIDIR-PIM
- C. PIM-SM
- D. PIM-SSM

**Answer: ([SHOW ANSWER](#))**

#### **NEW QUESTION: 57**

Which method will filter routes between EIGRP neighbors within the same autonomous system?

- A. distribute-list
- B. policy-based routing
- C. leak-map
- D. route tagging

**Answer: A ([LEAVE A REPLY](#))**

Section: Advanced Addressing and Routing Solutions

#### **NEW QUESTION: 58**

Refer to the exhibit. Customers report low video quality and delays when having point-to-point telepresence video calls between the two locations. An architect must optimize a design so that traffic follows the same path for egress and ingress traffic flows. Which technique optimizes the design?

- A. Configure route leaking on the router in area 2.
- B. Configure the high metric on the router in area 4.
- C. Configure route filter on the router in area 4.
- D. Configure route leaking on the router in area 1.

**Answer: B ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 59**

In an SD-WAN architecture, which methods are used to bootstrap a vEdge router?

- A. vManage or DNS records
- B. DHCP options or manual configuration
- C. ZTP or manual configuration
- D. DNS records or DHCP options

**Answer: ([SHOW ANSWER](#))**

#### **NEW QUESTION: 60**

Which function are fabric intermediate nodes responsible for in an SD-Access Architecture?

- A. mapping EIDs to RLOCs
- B. encapsulating user traffic in a VXLAN header including the SGT
- C. registering new endpoints in the HTDB
- D. transporting IP packets between edge nodes and border nodes

**Answer: D ([LEAVE A REPLY](#))**

Section: Advanced Enterprise Campus Networks

#### **NEW QUESTION: 61**

Drag and drop the characteristics from the left onto the telemetry mode they apply to on the right.

**Answer:**

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#### **NEW QUESTION: 62**

An engineer is upgrading a company's main site to include a connection to a second ISP. The company will receive full Internet routing tables from both ISPs via BGP. The engineer must ensure that the company does not become a transit autonomous system. Which solution should be included in this design?

- A. Lower the MED for updates sent to the secondary ISP.
- B. Use a route-map to prevent all prefixes from being advertised to either ISP.
- C. Modify the local-preference for routes incoming from the primary ISP.
- D. Tag incoming routes from both ISPs with BGP community no-export.

**Answer: D** ([LEAVE A REPLY](#))

#### **NEW QUESTION: 63**

An engineer must design a scalable QoS architecture that allows the separation of the traffic into classes on predefined business requirements. The design must also utilize the differentiated services code points as the QoS priority descriptor value and support at least 10 levels of classification. Which QoS technology should the engineer include in the design?

- A. Best Effort
- B. DiffSery
- C. RSVP
- D. InterServ

**Answer: B** ([LEAVE A REPLY](#))

#### **NEW QUESTION: 64**

A network solution is being designed for a company that connects to multiple Internet service providers.

Which

Cisco proprietary BGP path attribute will influence outbound traffic flow?

- A. Weight
- B. AS Path
- C. Local Preference
- D. Community
- E. MED

**Answer: (**[SHOW ANSWER](#)**)**

**NEW QUESTION: 65**

Drag and drop the properties from the left onto the protocols they describe on the right.

**Answer:**

**NEW QUESTION: 66**

An engineer is looking for a standards-driven YANG model to manage a multivendor network environment.

Which model must the engineer choose?

- A. Native
- B. OpenConfig
- C. IETF
- D. IEEE NETCONF

**Answer: C ([LEAVE A REPLY](#))**

Section: Automation

**NEW QUESTION: 67**

Drag and drop the properties from the left onto the protocols they describe on the right.

**Answer:**

Reference:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/166/b\\_166\\_programmability\\_cg/b\\_166\\_programmability\\_cg\\_chapter\\_01011.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/166/b_166_programmability_cg/b_166_programmability_cg_chapter_01011.html)

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/169/b\\_169\\_programmability\\_cg/configuring\\_yang\\_datamodel.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/prog/configuration/169/b_169_programmability_cg/configuring_yang_datamodel.html)

**NEW QUESTION: 68**

In an SD-WAN architecture, which methods are used to bootstrap a vEdge router?

- A. DHCP options or manual configuration
- B. vManage or DNS records
- C. ZTP or manual configuration
- D. DNS records or DHCP options

**Answer: C ([LEAVE A REPLY](#))**

Section: WAN for Enterprise Networks

**NEW QUESTION: 69**

Refer to the exhibit.

An architect must design a solution to connect the network behind R3 with the EIGRP network.

Which mechanism should be included to avoid routing loops?

- A. down bit

- B. route tags
- C. summarization
- D. split horizon

**Answer:** ([SHOW ANSWER](#))

**NEW QUESTION: 70**

Which feature must be incorporated into the campus LAN design to enable Wake on LAN?

- A. proxy ARP on layer 3 devices
- B. DHCP Snooping on layer 2 devices
- C. directed broadcasts on layer 3 devices
- D. dynamic ARP Inspection Snooping on layer 2 devices

**Answer:** C ([LEAVE A REPLY](#))

**NEW QUESTION: 71**

How is internet access provided to a WAN edge router that is connected to a MPLS transport link?

- A. TLOC extensions are used to route traffic to a WAN Edge router that is connected to the Internet transport network
- B. Internet access must be provided at the WAN Edge router through either a 4G/5G link or local Internet circuit
- C. An extranet must be provided in the MPLS transport network to allow private traffic to reach the public internet
- D. OMP advertises a default route from a WAN Edge router that is connected to the MPLS and internet transport networks

**Answer:** A ([LEAVE A REPLY](#))

**NEW QUESTION: 72**

What is a benefit of using VRRPv3 as compared to VRRPv2?

- A. VRRPv3 supports IPv4 and IPv6
- B. VRRPv3 supports authentication
- C. VRRPv3 supports stateful switchover
- D. VRRPv3 supports preemption

**Answer:** A ([LEAVE A REPLY](#))

**NEW QUESTION: 73**

An engineer must propose a QoS architecture model that allows an application to inform the network of its traffic profile and to request a particular type of service to support its bandwidth and delay requirements. The application requires consistent and dedicated bandwidth end to end. Which QoS architecture model meets these requirements?

- A. IntServ
- B. DiffServ

C. WRED

D. LLQ

Answer: A ([LEAVE A REPLY](#))

#### NEW QUESTION: 74

Drag and drop the characteristics from the left onto the correct telemetry mode on the right.

Answer:

Explanation

In a dial-in mode, the destination initiates a session to the router and subscribes to data to be streamed. Dialin mode is supported over gRPC in only 64-bit platforms In a dial-out mode, the router initiates a session to the destinations based on the subscription. All 64-bit IOS XR platforms (except for NCS 6000 series routers) support gRPC and TCP protocols. All 32-bit IOS XR platforms support only TCP.

#### NEW QUESTION: 75

Which method will filter routes between EIGRP neighbors within the same autonomous system?

A. distribute-list

B. policy-based routing

C. leak-map

D. route tagging

Answer: A ([LEAVE A REPLY](#))

#### NEW QUESTION: 76

Refer to the exhibit. Which solution decreases the EIGRP convergence time?

A. Increase the dead timer value

B. Enable subsecond timers

C. Increase the hold time value

D. Enable stub routing on the spokes

Answer: D ([LEAVE A REPLY](#))

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#### NEW QUESTION: 77

An infrastructure team is concerned about the shared memory utilization of a device, and for this reason, they need to monitor the device state. Which solution limits impact on the device and provides the required data?

- A. on-change subscription
- B. IPFIX
- C. static telemetry
- D. periodic subscription

**Answer: B ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 78**

What is the purpose of a Cisco SD-Access underlay network?

- A. to establish physical connectivity between switches and routers
- B. to provide virtualization by encapsulating network traffic over IP tunnels
- C. to abstract IP-based connectivity from physical connectivity
- D. to emulate LAN segments to transport Layer 2 frames over a Layer 3 network

**Answer: A ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 79**

A customer's current Layer 2 infrastructure is running Spanning Tree 802.1d, and all configuration changes are manually implemented on each switch. An architect must redesign the Layer 2 domain to achieve these goals:

- \* reduce the impact of topology changes
- \* reduce the time spent on network administration
- \* reduce manual configuration errors

Which two solutions should the architect include in the new design? (Choose two.)

- A. Implement Rapid PVST+ instead of STP.
- B. Implement MST instead of STP.
- C. Use VTP to propagate VLAN information and to prune unused VLANs.
- D. Configure broadcast and multicast storm control on all switches.
- E. Configure dynamic trunking protocol to propagate VLAN information.

**Answer: C,D ([LEAVE A REPLY](#))**

#### **NEW QUESTION: 80**

An architect is creating a migration strategy for a large organization in which the choice made by the application between IPv6 and IPv4 is based on the DNS request. Which migration strategy does the architect choose?

- A. AFT for public web presence
- B. dual stack
- C. host-initiated tunnels
- D. site-to-site IPv6 over IPv4 tunnels

**Answer: B ([LEAVE A REPLY](#))**

**NEW QUESTION: 81**

Which two statements about VRRP advertisements are true? (Choose two.)

- A. They are sent every three seconds by default.
- B. They include priority information.
- C. They are sent from the master router and standby routers.
- D. They include VRRP timer information.
- E. They are sent only from the master router.

**Answer: B,C ([LEAVE A REPLY](#))**

**NEW QUESTION: 82**

Which two routing protocols allow for unequal cost load balancing? (Choose two.)

- A. EIGRP
- B. IS-IS
- C. BGP
- D. OSPF
- E. RIPng

**Answer: ([SHOW ANSWER](#))**

Section: Advanced Addressing and Routing Solutions

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