



Cisco

Exam Questions 352-001

CCDE Written Exam

NEW QUESTION 1

The cloud service provider CSP is planning to launch five data centers in Egypt, United Arab Emirates, Saudi Arabia, Qatar and Turkey. CSP is looking for VLAN extension and DCIs between these five data centers to allow for software replication, where original and backup VMs must be on the same subnet. Which tunneling technology must they use?

- A. VPLS
- B. IPsec VPN
- C. VPWS
- D. L2TPv3

Answer: A

NEW QUESTION 2

As part of network design, two geographically separated data centers must be interconnected using Ethernet-over-MPLS pseudowire. The link between the sites is stable, the topology has no apparent loops, and the root bridges for the respective VLANs are stable and unchanging. Which aspect must be the part of the design to mitigate the risk of connectivity issues between the data centers?

- A. Enable 802.1d on one data center, and 802.1w on the other.
- B. Ensure that the spanning tree diameter for one or more VLANs is not too large.
- C. Enable UDLD on the link between the data centers.
- D. Enable root guard on the link between the data centers.

Answer: B

NEW QUESTION 3

Which load balancing option for IP-only traffic is the least efficient in terms of EtherChannel physical links utilization?

- A. On a per source IP address basis
- B. On a per destination MAC address basis
- C. On a per destination IP address basis
- D. On a per port number basis

Answer: B

NEW QUESTION 4

ACME Corporation is integrating IPv6 into their network, which relies heavily on multicast distribution of data. Which two IPv6 integration technologies support IPv6 multicast? (Choose two.)

- A. 6VPE
- B. 6PE
- C. dual stack
- D. ISATAP
- E. 6to4
- F. IPv6INIP

Answer: CE

NEW QUESTION 5

Which three options are important design functions of IPv6 first-hop security? (Choose three)

- A. It prevents rogue DHCP servers from assigning IPv6 addresses.
- B. It prevents IPv6 packets fragmentation.
- C. It limits IPv6 route advertisement in the network.
- D. It implements a broadcast-control mechanism.
- E. It suppresses excessive multicast neighbor discovery.
- F. It implements multihoming security.

Answer: ACE

NEW QUESTION 6

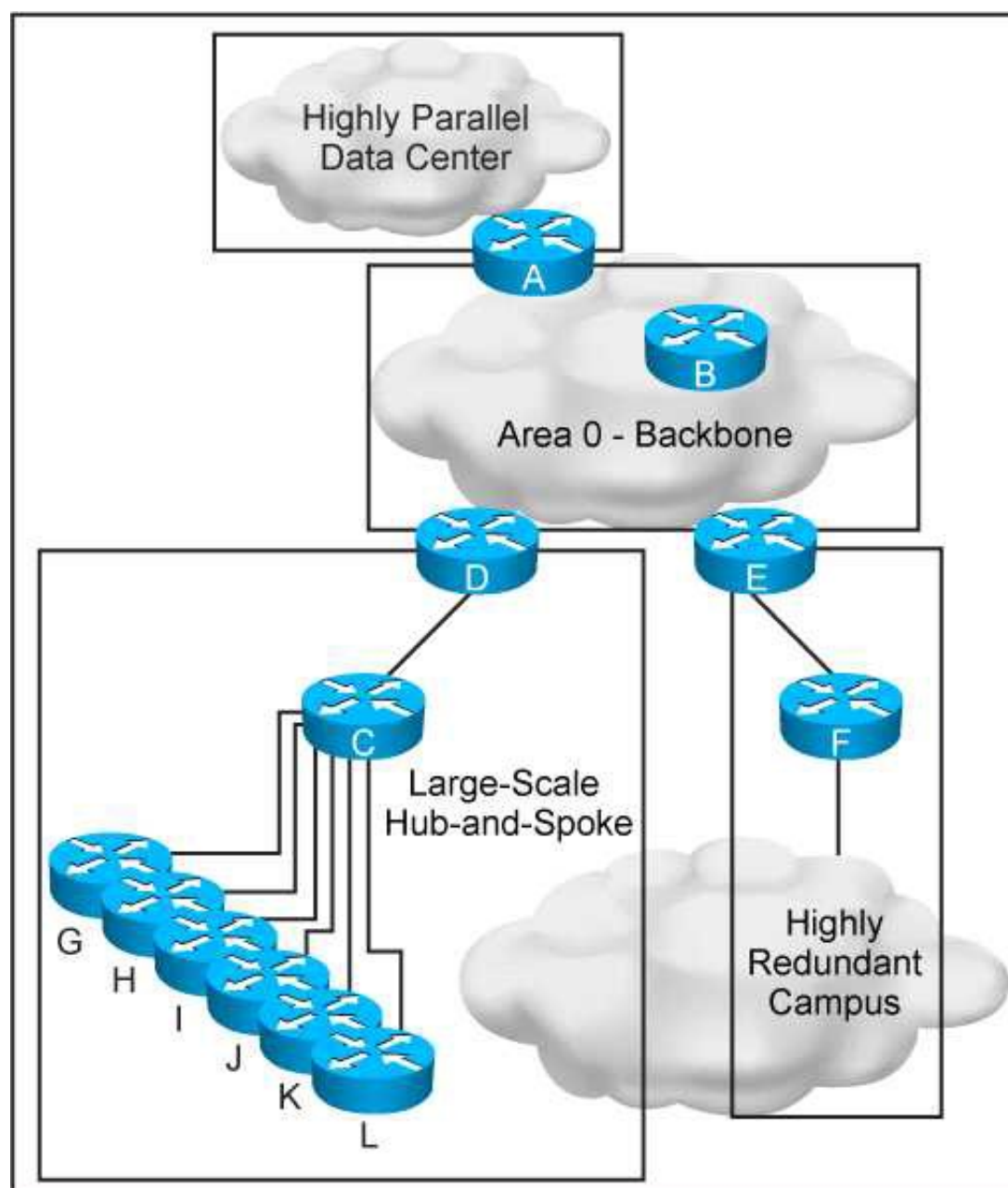
Which major block is not included in the ETSI network Function Virtualization reference framework?

- A. Network Function Virtualization Infrastructure
- B. Network Function Virtualization Management and Orchestration
- C. Network Function Virtualization Policy Manager
- D. Virtualized Network Function/ Element Management Systems

Answer: C

NEW QUESTION 7

Refer to the exhibit.



This new OSPF network has four areas, but the hub-and-spoke area experiences frequent flapping. In order to fix this design failure, which two mechanisms can you use to isolate the data center area from the hub-and-spoke area without losing Ip connectivity? (Choose two)

- A. Use OSPF distribute-list filtering on router A
- B. Deploy a prefix summarization on router D
- C. Make the data center area a NSSA
- D. Make the data center area totally stub
- E. Convert the data center area to EIGRP protocol

Answer: BD

NEW QUESTION 8

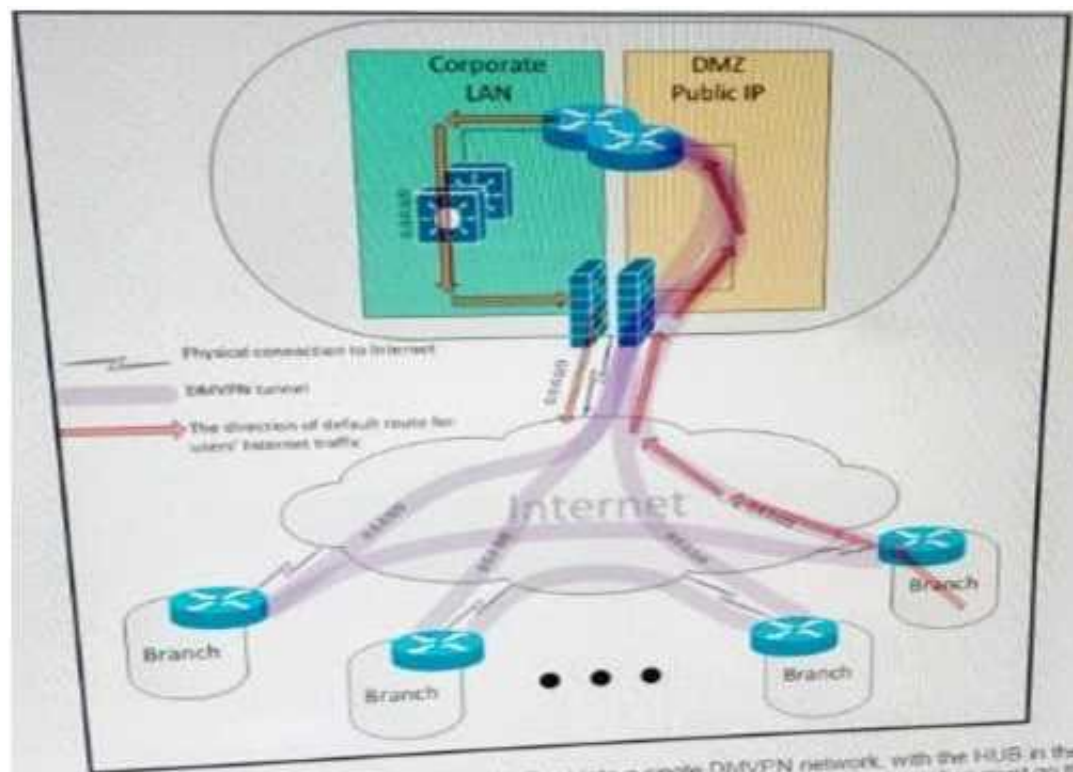
Which feature or technology that affects the operations of IPsec should be taken into account when designing an IPsec network using Authentication header?

- A. TCP MSS adjustment
- B. Certificate-based authentication
- C. Transform set
- D. NAT

Answer: D

NEW QUESTION 9

Refer to the exhibit.



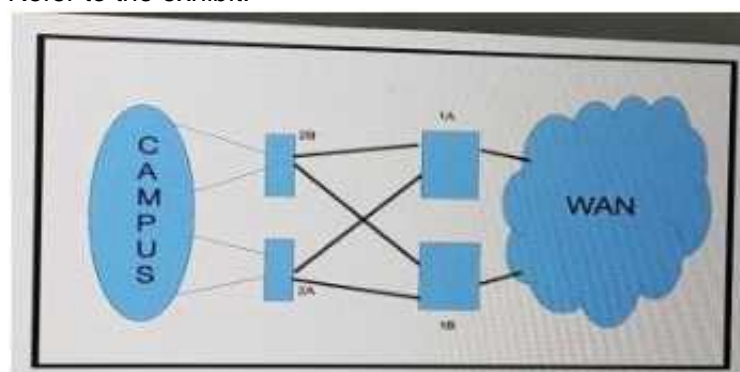
A customer interconnected hundreds of branch offices into a single DMVPN network, with the HUB in the main data center. Due to security policies, the customer requires that the default route for all Internet traffic from the users at the branches must go through the tunnel and the only connections that are allowed to and from the branch router over the local internet circuit are the DMVPN tunnels. Which two combined actions must you take on the branch router to address these security requirements and keep the solution scalable? (Choose two)

- A. Place the WAN interface in a front-door VRF, leaving the tunnel interface in the default routing instance
- B. Protect the WAN interface by an inbound ACL that permits only IPsec-related traffic
- C. Implement a zone-based firewall that allows only IPsec-related traffic from zone UNTRUSTED to zone TRUSTED
- D. Add a host route for the public IP address of each remote branch and HUB routers that points directly to the local ISP, and add a default route that points to the tunnel
- E. Use a floating default route with the preferred path over the tunnel and a backup path over the Internet natively

Answer: AB

NEW QUESTION 10

Refer to the exhibit.



How should you redesign this network running BGP to improve availability of the routers 1A and 1B at the core site?

- A. Deploy BGP PIC
- B. Use link bundles over multiple slots
- C. Enable graceful restart
- D. Create a multichassis system with the two routers

Answer: A

NEW QUESTION 10

What is a design application of control plane policing?

- A. CPP protects the control plane from reconnaissance and or denial-of-service attacks
- B. CPP protects the forwarding plane by rate-limiting excessive routing protocol traffic
- C. CPP protects the forwarding plane by allowing legitimate traffic and dropping excessive traffic
- D. CPP drop malformed packet that are sent to the CPU

Answer: A

NEW QUESTION 12

A regional ISP is running MPLS TE. These tunnels are configured manually using paths. Which technology centralizes the traffic engineering decisions to reduce operational complexity?

- A. BGP Link State
- B. DiffServ-TE
- C. TE autobandwidth
- D. Shared Risk link Group

Answer: C

NEW QUESTION 14

What are two possible drawbacks of ending Loop-Free Alternate to support fast convergence for most destination IGP prefixes? (Choose two)

- A. The IGP topology might need to be adjust
- B. Loop-free alternate's convergence in less than 100 milliseconds is not possible
- C. Loop-free alternate's are supported only for prefixes that are considered external tot the IGP
- D. Loop-free alternates are not supported in global VPN VRF OSPF instances
- E. Additional path computations are needed

Answer: AE

NEW QUESTION 16

Which two functions are performed at the core layer of the three-layer hierarchical network design model? (Choose two).

- A. Fault isolation
- B. Qos classification and marking boundary
- C. Fast transport
- D. Reliability
- E. Load balancing

Answer: CD

NEW QUESTION 18

Which two techniques are used in an OSPF network design to slow down the distribution of topology information caused by a rapidly flapping link? (Choose two)

- A. LSA throttling
- B. SPF throttling
- C. IP event dampening
- D. Link-state incremental SPF
- E. Link-state partial SPF

Answer: AC

NEW QUESTION 23

Which mechanism provides fast path failure detection?

- A. Non-Stop Forwarding
- B. Carrier delay
- C. Graceful restart
- D. UDLD
- E. Fast hello packets
- F. iSPF

Answer: E

NEW QUESTION 24

Which technology , implemented on aggregation –edge nodes at the aggregation layer, provides per –tenant isolation at Layer 3 , with separate dedicated per-tenant routing and forwarding tables on the inside interfaces of firewall contexts?

- A. VDC
- B. VLAN
- C. VXLAN
- D. VRF-lite

Answer: D

NEW QUESTION 26

A financial trading organization plans to monitor the network latency for multicast data feeds on a hop-by-hop basis. Which technology should be added to their design to support this requirement?

- A. SPAN
- B. NBAR
- C. IPFIX
- D. Precision Time Protocol

Answer: D

NEW QUESTION 30

A very large enterprise customer is migrating from EIGRP to IS-IS .What is your main concern in regards to change in the path packets take after the migration is complete?

- A. The areas sizes.
- B. The number of prefixes
- C. The redistribution points.
- D. The bandwidth and metrics of the links.

Answer: D

NEW QUESTION 33

Which two components are the responsibility of the customers in a platform as a Service offering?
(Choose two)

- A. Applications
- B. Infrastructure connectivity
- C. Hardware
- D. Data
- E. APIs

Answer: AD

NEW QUESTION 37

A data center provider has designed a network using these requirements

Two data center sites are connected to the public internet

Both data centers are connected to different Internet providers

Both data centers are also directly connected with a private connection for the internal traffic can also be at this direct connection The data center provider has only /19 public IP address block

Under normal conditions, Internet traffic should be routed directly to the data center where the services are located. When one Internet connections fails to complete traffic for both data centers should be routed by using the remaining Internet connection in which two ways can this routing be achieved? (Choose two)

- A. One /20 block is used for the first data center and the second /20 block is used for the second data center
- B. The /20 block from the local data center is sent out without path prepending and the /20 block from the remote data center is sent out with path prepending at both sites
- C. One /20 block is used for the first data center and the second /20 block is used for the second data center
- D. Each /20 block is only sent out locally
- E. The /19 block is sent out at both Internet connections for the backup case to reroute the traffic through the remaining internet connection
- F. One /20 block is used for the first data center and the second /20 block is used for the second data center
- G. The /20 block from the local data center is sent out with a low BGP local preference and the /20 block from the remote data center is sent out with a higher BGP local preference of both sites
- H. BGP will always load-balance the traffic to both data center sites
- I. One /20 block is used for the first data center and the second /20 block is used for the second data center
- J. The /20 block from the local data center is sent out with a low BGP weight and the /20 block from the remote data center is sent out with a higher BGP weight at both sites
- K. The data center provider must have an additional public IP address block for this routing

Answer: AB

NEW QUESTION 40

An ISP provides VoIP and internet services to its customers. For security reasons, these services must

be transported in different MPLS Layer 3 VPNs over the ISP core network. The customer CEs do not have the ability to segment the services using different VLANs and have only one uplink interface that does not support VLAN tagging. How should you design the network to ensure that VoIP traffic that is received from the CE goes in the VoIP VPN, and that Internet traffic goes into the Internet VPN on the ISP PE devices?

- A. Use a secondary interface IP address to differentiate between VoIP and Internet traffic
- B. Extend the Layer 3 VPN toward the CE
- C. Enable NBAR on the PE to direct the traffic into the correct VRF
- D. Use a subinterface on the PE for each service, VoIP and Internet, with different subnets
- E. Use policy-based routing to direct traffic into the correct VRF

Answer: E

NEW QUESTION 45

How can a network designer reduce the amount of LSA flooding occurring in a large, single area fully-meshed OSPF topology?

- A. Implemented passive OSPF interfaces on the routers not participating on the DR/BDR election.
- B. Use access control lists to control outbound advertisements.
- C. Ensure DR and BDR routers are placed optimally in the topology.
- D. Place all point-to-point links in their own dedicated areas.

Answer: C

NEW QUESTION 47

A company would like to distribute a virtual machine (VM) hosting cluster between three data centers with the capability to move VMs between sites. The connectivity between data centers is IP only and the new design should use the existing WAN. Which Layer 2 tunneling technology do you recommend?

- A. AToM
- B. L2TPv3
- C. OTV
- D. VPLS

Answer: C

NEW QUESTION 51

Which two options are reasons for designing a large OSPF network with multiple areas connected to the backbone? (Choose two)

- A. Reduce the number of routes within an area
- B. Route tagging capability
- C. Simplify logical topology
- D. Enhance failure detection
- E. Reduce SPF algorithm runs

Answer: AE

NEW QUESTION 54

You are designing the QoS features for a large enterprise network that includes DMVPN. In which situation should you use the QoS pre-classify feature?

- A. When you are marking packets with the ToS bits
- B. When the QoS policy cannot be based on DSCP bits
- C. When you are marking packets with the DSCP bits
- D. When your service provider requires the DSCP bits be set

Answer: B

NEW QUESTION 58

Which multicast technology provides a large, many-to-many connectivity for a new application while minimizing load on the existing network infrastructure?

- A. PIM Sparse Mode
- B. Bidirectional PIM
- C. Any-Source Multicast
- D. Source Specific Multicast

Answer: B

NEW QUESTION 60

At which two networks points is route summarization supported? (Choose two)

- A. At EIGRP AS boundaries
- B. At EIGRP interface boundaries
- C. At OSPF virtual-link boundaries
- D. At EIGRP are boundaries
- E. At OSPF area boundaries
- F. At EIGRP stub interface boundaries

Answer: BE

NEW QUESTION 62

A Company has these requirements for access to their wireless and wired corporate LANs using 802.1x Clients devices that corporate assets and have joined the active directory domain are allowed access Personal devices must be not allowed access Clients and access servers must be mutually authenticated. Which solution meets these requirements?

- A. Protected EAP/Microsoft CHAP v2 with user authentication
- B. EAP-TLS with machine authentication
- C. EAP-TLS with user authentication
- D. Protected EAP/Microsoft CHAP v2 with Machine authentication

Answer: B

NEW QUESTION 65

A BGP route reflector in the network is talking longer than expected to converge during network changes. Troubleshooting has shown that the router cannot handle all the TCP acknowledgements during route updates. Which action can be performed to tune device performance?

- A. Increase the size of the large buffers
- B. Decrease the size of the small buffers
- C. Increase the keepalive timers for each BGP neighbor
- D. Increase the size of the hold queue

Answer: D

NEW QUESTION 66

A customer has a DMVPN network with EIGRP as the overlay protocol. EIGRP timers cannot be shortened, yet the customer requires the detection of lost connectivity between neighbors in less than three seconds. Which action achieves this requirement?

- A. Adjust the GRE keepalive timers
- B. Enable BFD
- C. Deploy IPsec dead peer detection
- D. Adjust the NHRP timers.

Answer: B

NEW QUESTION 69

Why is a redundant PIM stub router topology a bad network design decision?

- A. Multicast convergence takes long
- B. Multicast traffic duplication will occur
- C. It interferes with IGMP snooping
- D. It interfaces with PIM snooping

Answer: B

NEW QUESTION 70

Which two general SDN characteristics? (Choose two)

- A. Southbound interfaces are interfaces used between the control plane and the data plane
- B. OpenFlow is considered one of the first Northbound APIs used by SDN controllers
- C. Northbound interfaces are open interfaces used between the control plane and the data plane
- D. The separation of the control plane from the data plane
- E. OVSDB is an application database management protocol

Answer: AD

NEW QUESTION 74

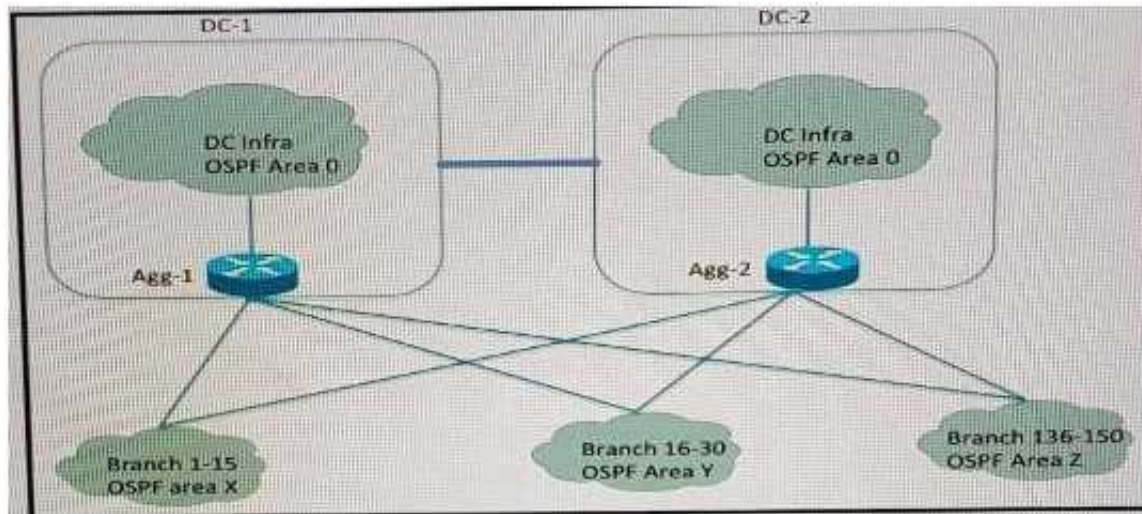
A switched network is being designed to support a manufacturing factory. Due to cost constraints, fiber-based connectivity is not an option. Which design allows for a stable network when there is a risk of interference from the manufacturing hardware in use on the factory floor?

- A. Design the network to include UDLD to detect unidirectional links and take them out of service.
- B. Design the network to include Ether Channel bundles to prevent a single-link failure from taking down a switch interconnection point.
- C. Design the network to include loop guard to prevent a loop in the switched network when a link has too much interference.
- D. Design the network to include Backbone Fast on all devices to accelerate failure convergence times.

Answer: B

NEW QUESTION 76

Refer to the exhibit



company xyz has 150 branch location across the U.S. Each branch is connected to two aggregation router one router in each data center The network is configured with Multiple OSPF with multiple OSPF areas and the aggregation router are ABRs A requirement is to keep an optimal path to the data centers and at the same time reduce the LSA propagation and SPF recomputation during a change in any part of the network Which design elements should be included on the aggregation router?

- A. OSPF NSSA
- B. distribute lists
- C. OSPF summarization
- D. OSPF totally stubby area

Answer: C

NEW QUESTION 81

You work as a network designer for a company that is replacing their Frame Relay WAN with an MPLS VPN service, where the PE-to-CE routing protocol is BGP. The company has 3000 routes in their distribution routers, and they would like to advertise their access routers through the MPLS network. Their service provider, however, only supports 1000 prefixes per VRF. Which two design solutions can be applied to ensure that your access routers will be able to reach all devices in your network? (Choose two.)

- A. Configure the distribution routers to send a default route to the MPLS network
- B. Configure null routes and aggregate routes for the prefixes in your network on the distribution routers
- C. Summarize the routes on MPLS WAN interfaces of the distribution routers
- D. Use prefix lists on the distribution routers to control which routes are sent to MPLS network
- E. Configure the access routers to send a default route to the MPLS network

Answer: AC

NEW QUESTION 85

Which two options are design considerations when introducing FCoE into an existing network? (Choose two)

- A. The FCoE QoS markings may overlap with call signaling QoS markings
- B. Optical cabling is needed to transmit FCoE traffic between a server and its directly connected Ethernet switch
- C. The existing network must support a MTU of 3280 bytes
- D. Twinaxial cabling can be used to transmit FCoE traffic between a server and its directly connected Ethernet switch, if it is less than 10 meters
- E. All the servers in the data center must be retrofitted with converged Network Adapters

Answer: AE

NEW QUESTION 86

Which two options are considered risks or concerns when both the Internet and VPN service functions are on the same PE router? (Choose two.)

- A. Internet-based attacks can affect VPN customers.
- B. BGP cannot simultaneously run on the PE router that runs MPLS.
- C. MP-BGP prefixes increase routers' global routing tables, which affects network convergence.
- D. Failure on the PE router affects both VPN and Internet services.
- E. Customer performance can be affected by VPN traffic if Internet-based traffic is not prioritized on the PE

Answer: AD

NEW QUESTION 87

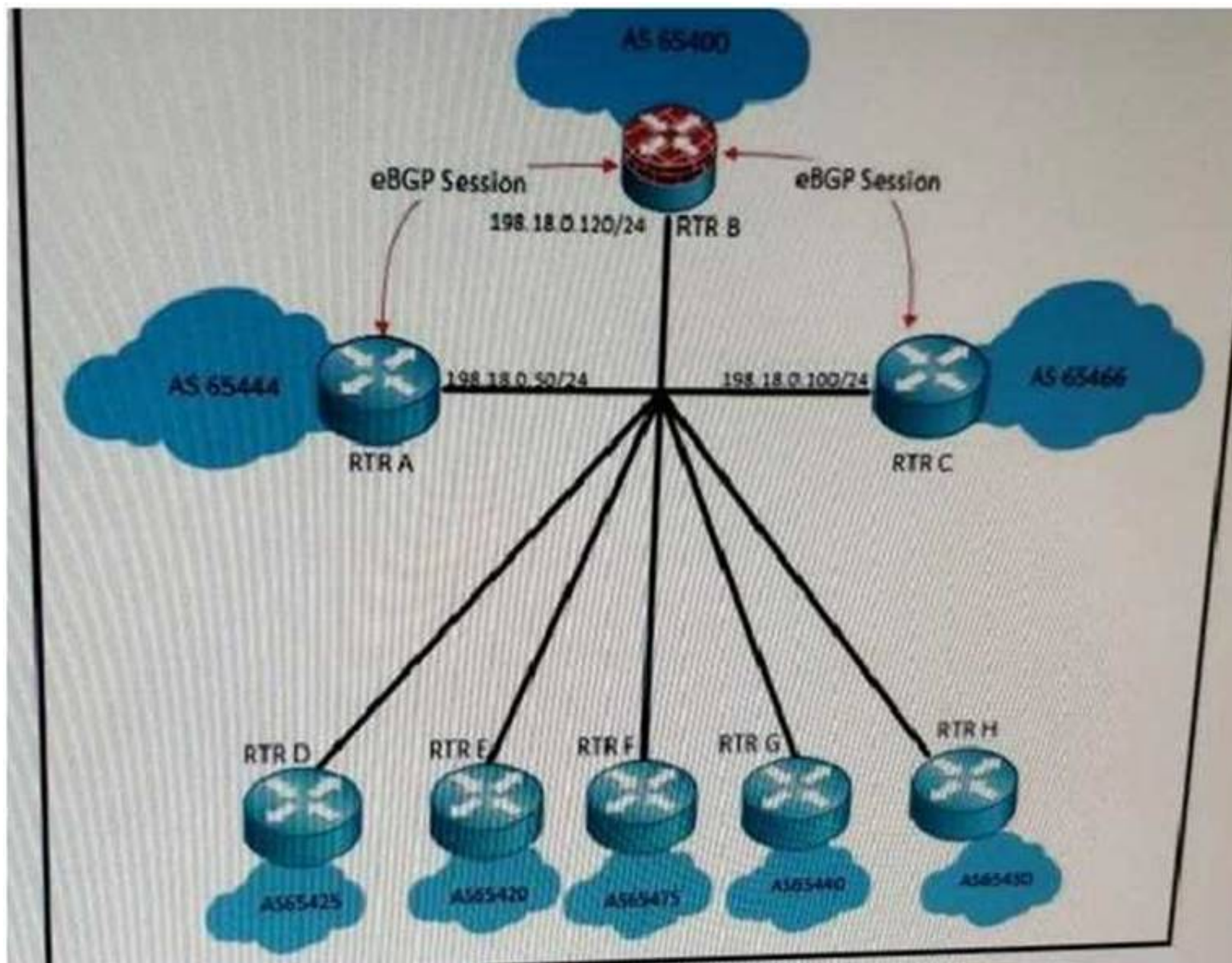
You are designing a solution to connect a primary data center to a disaster recovery site, The hosted applications will be web and email servers that are provided through a virtualized environment. Which connectivity technology should you consider for this design?

- A. L2TPV3.
- B. VPWS.
- C. Point-To-Point GRE tunnels.
- D. VPLS.

Answer: A

NEW QUESTION 89

Refer to the exhibit.



Transit traffic in this large enterprise campus network passes the eBGP core. Per security policy, traffic coming from AS 65444 destined for AS 65466 and vice-versa must pass through AS 65400. An audit discovers that traffic between 65444 and 65466 did not pass through 65400, instead it is communicating directly. How must you design BGP to ensure that the traffic from AS 65444 destined for AS 65466 passes through AS65400 on this broadcast network?

- A. Apply an ACL on AS 65466 to drop the direct traffic between AS 65444 and AS 65466
- B. Apply AS-path prepending on AS 65466 and AS 65444
- C. Apply next-hop self on both BGP neighbors on AS 65400

D. Apply the MED attribute on the BGP session for AS 65444

Answer: C

NEW QUESTION 93

Your customer recently acquired a company with a national WAN of 750 locations consisting of MPLS VPN-based sales, Internet-based sites and sites with direct links to regional hub sites. The existing network has MPLS VPN-based sites. Which solution ensure security and encryption across all sites to meet an audit requirement?

- A. Implement a hierarchical DMVPN-based hub-and-spoke network with IPsec encryption
- B. Migrate newly acquired sites to the MPLS VPN-based service of the parent company
- C. Implement a GETVPN-based solution across all sites with selective traffic encryption
- D. Implement a GETVPN-based solution across all sites with redundant key servers

Answer: A

NEW QUESTION 98

An enterprise customer A with provider-independent address space is dual-homed to two ISP. Which two options , when combined, allow for customer A to efficiently achieve out-bond traffic load- balancing? (Choose two)

- A. Advertise Customer A subnets with a shorter AS path prepend to one of the ISPs than to the other
- B. Advertise Customer A subnets with different MED values to the two ISPs
- C. Accept a default route from both ISPs
- D. Make the CE connected to both ISPs route reflector
- E. Accept the routes originated on both ISPs and their direct peers

Answer: CE

NEW QUESTION 102

Which two options describe the advantages of using DWDM over traditional optical networks? (Choose two)

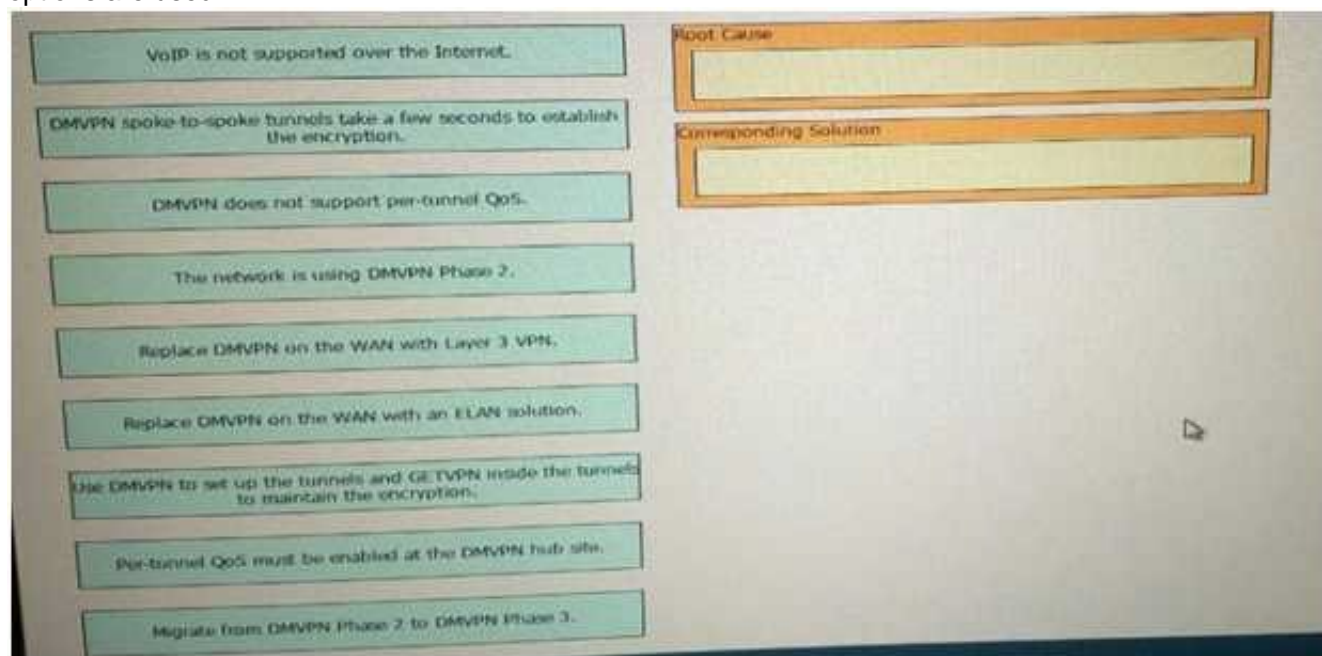
- A. Inherent topology flexibility with intelligent chromatic dispersion
- B. Inherent topology flexibility and service protection provided without penalty through intelligent oversubscription of bandwidth reservation
- C. Inherent topology flexibility with built-in service protection
- D. Inherent topology flexibility with a service protection provided through a direct integration with an upper layer protocol
- E. Ability to expand bandwidth over existing optical infrastructure

Answer: AE

NEW QUESTION 104

DRAG DROP

An enterprise customer has a national WAN network based on DMVPN over the Internet, with sites located throughout the country. The customer has recently deployed VoIP throughout the entire network , and users report that it takes up to 2 seconds to establish a telephone call to an IP telephone at another office network. Drag and drop the root cause and the corresponding design solution from the left onto the correct targets on the right Not all options are used



Options (Left)	Root Cause	Corresponding Solution
VoIP is not supported over the Internet.		
DMVPN spoke-to-spoke tunnels take a few seconds to establish the encryption.		
DMVPN does not support per-tunnel QoS.		
The network is using DMVPN Phase 2.		
Replace DMVPN on the WAN with Layer 3 VPN.		
Replace DMVPNs on the WAN with an ELAN solution.		
Use DMVPNs to set up the tunnels and GETVPN inside the tunnels to maintain the encryption.		
Per-tunnel QoS must be enabled at the DMVPN hub site.		
Migrate from DMVPN Phase 2 to DMVPN Phase 3.		

- A. Mastered
- B. Not Mastered

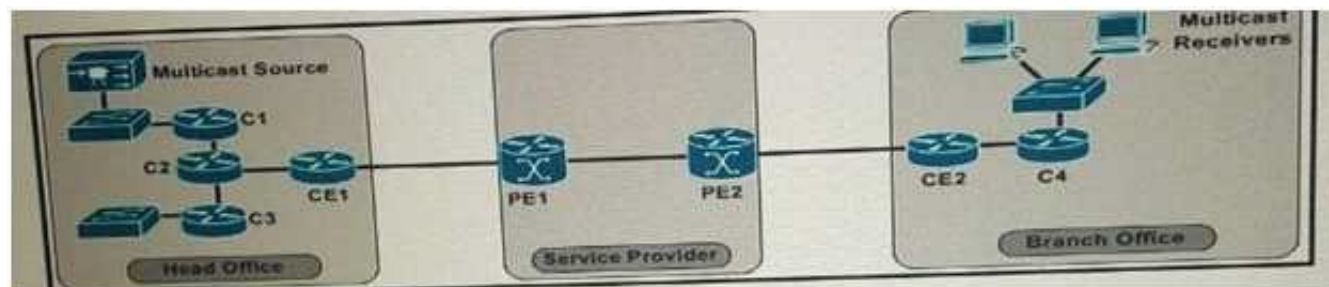
Answer: A

Explanation:

DMVPN spoke to spoke tunnels take a few second
 Use DMVPN to set up tunnels and GETVPN for encryption

NEW QUESTION 106

Refer to the exhibit.



This enterprise customer wants to stream one-way video from their head office to eight branch offices using multicast. Their current service provider provides a Layer 3VPN solution and manages the CE routers, but they do not currently multicast. Which solution quickly allows this multicast traffic to go through while allowing for future scalability?

- A. Enable a GRE tunnel between nodes C1 and C4
- B. Enable a GRE tunnel between nodes CE1 and CE2
- C. Enable a GRE tunnel between nodes C2 and C4
- D. Implement hub and spoke MPLS VPN over DMVPN(also known as 2547oDMVPN) between CE1 and CE2
- E. The service provider must provide a Draft Rosen Solution to enable a GRE tunnel node PE1 and PE2

Answer: B

NEW QUESTION 109

You are performing a BGP design review for a service provider that offers MPLS-based services to their end customers. The network is comprised of several PE routers that run iBGP with a pair of route reflectors for all BGP address families. Which two options about the use of Constrained Route Distribution for BGP/MPLS VPNs are true? (Choose two.)

- A. The RRs do not need to advertise any route target filter toward the PE routers
- B. The RR must advertise the default route target filter toward the PE routers
- C. Both PE and RR routers must support this feature
- D. This feature must be enabled on all devices in the network at the same time
- E. Route distinguishers are used to constrain routing updates

Answer: BC

NEW QUESTION 111

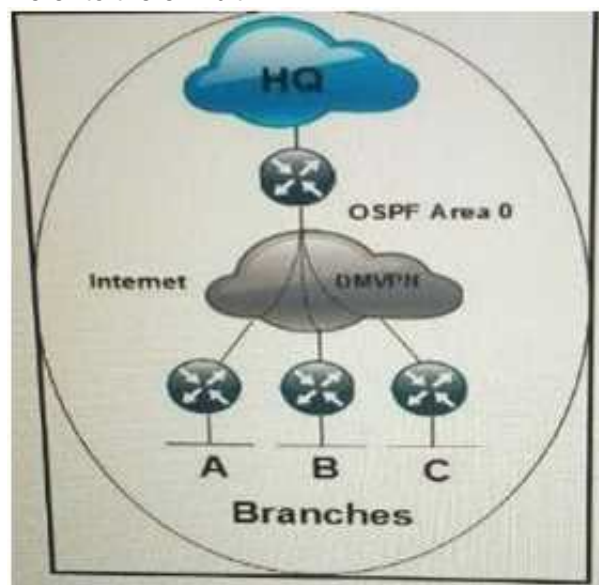
Which two OSPF network type combinations can you use in the design that requires spoke-to-spoke direct traffic? (Choose two.)

- A. hub as point-to-multipoint and spokes as non-broadcast
- B. hub as point-to-multipoint and spokes as point-to-point
- C. hub as broadcast and spokes as non-broadcast
- D. hub as point-to-point and spokes as point-to-point

Answer: BC

NEW QUESTION 116

Refer to the exhibit.



Each branch network must connect to the HQ and other branch networks over the phase 2 DMVPN network using a single tunnel interface. OSPF is running over the DMVPN network. Which network type is compatible with the DMVPN tunnel and ensures that the next hop of any route is unchanged?

- A. Point-to-point
- B. Point-to-multipoint
- C. Broadcast
- D. Nonbroadcast

Answer: C

NEW QUESTION 120

As network designer, which option is your main concern with regards to virtualizing multiple network zones into a single hardware device?

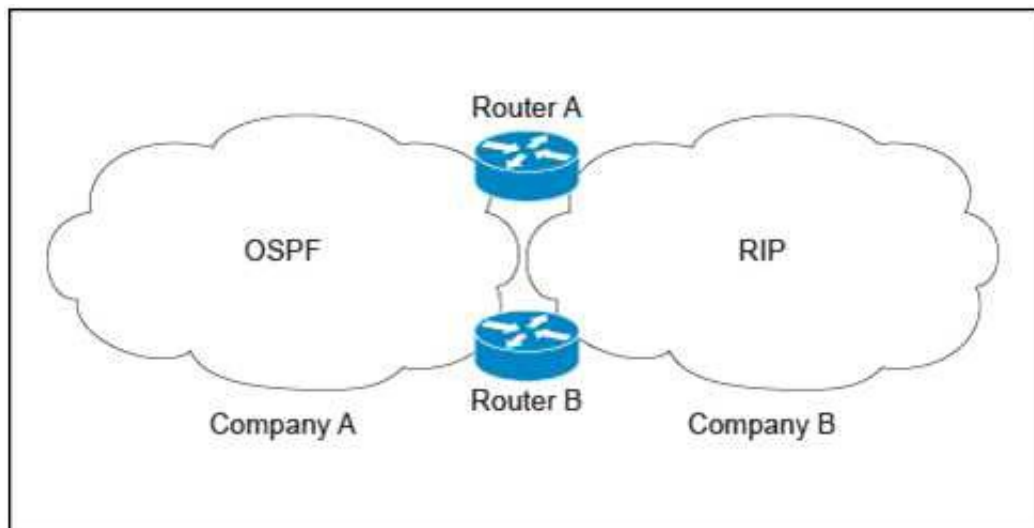
- A. Fate sharing

- B. CPU resource allocation
- C. Congestion control
- D. Security
- E. Bandwidth allocation

Answer: A

NEW QUESTION 122

Refer to the exhibit.



Company A is running a single-area OSPF, and Company B is running RIP as the IGP with no overlapping IP address spaces. Company A has just acquired Company B and both networks must be merged. Which three design components are recommended to guarantee connectivity and redundancy between the two networks? (Choose three.)

- A. Enable mutual redistribution between OSPF and RIP on one border router.
- B. Enable mutual redistribution between OSPF and RIP on Router A and Router B using route tags.
- C. Increase the administrative distance to 130 for the OSPF external prefixes on Router A and Router B.
- D. Implement an ACL on Router A and Router B to prevent OSPF external routes from being installed in the OSPF database.
- E. Filter external routes on Router A and Router B based on route tags.

Answer: BCE

NEW QUESTION 124

The service provider that you work for wants to offer IPv6 internet service to its customers without upgrading all of its access equipment to support IPv6, which transition technology do you recommend?

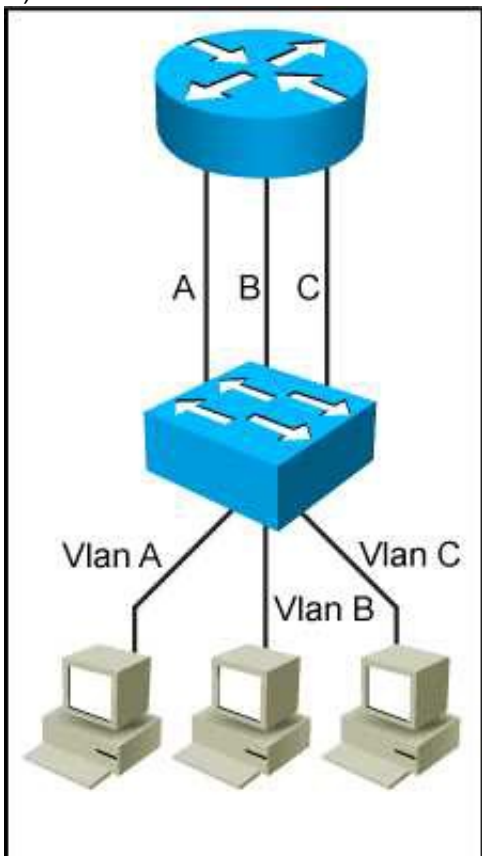
- A. NAT64
- B. CGN
- C. Dual-stack CPE
- D. 6RD

Answer: D

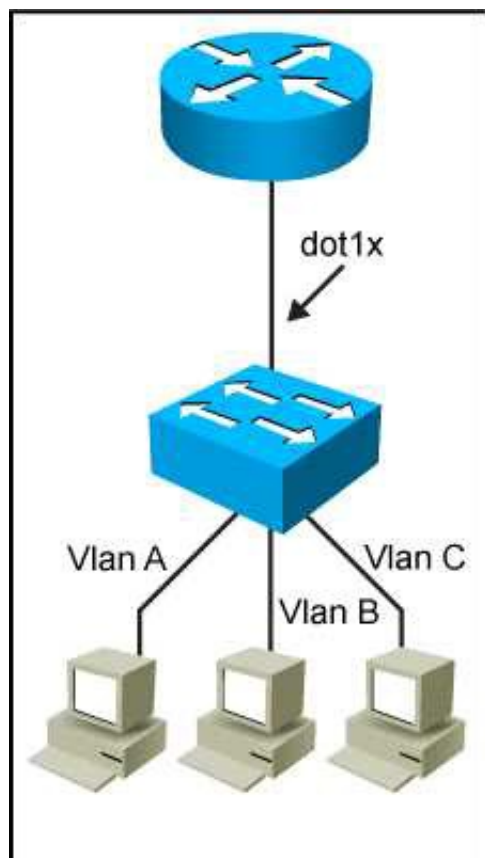
NEW QUESTION 128

Which network topology is characterized by a link fate-sharing situation?

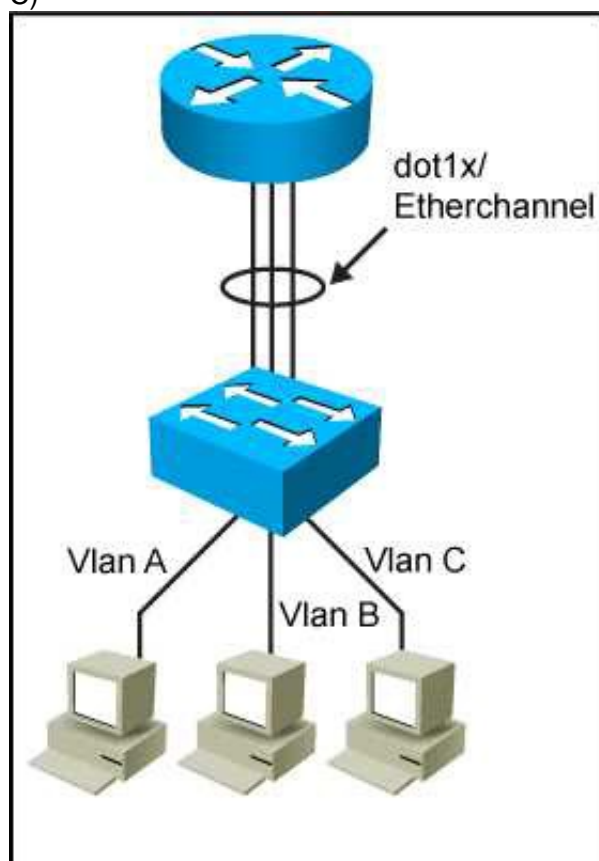
A)



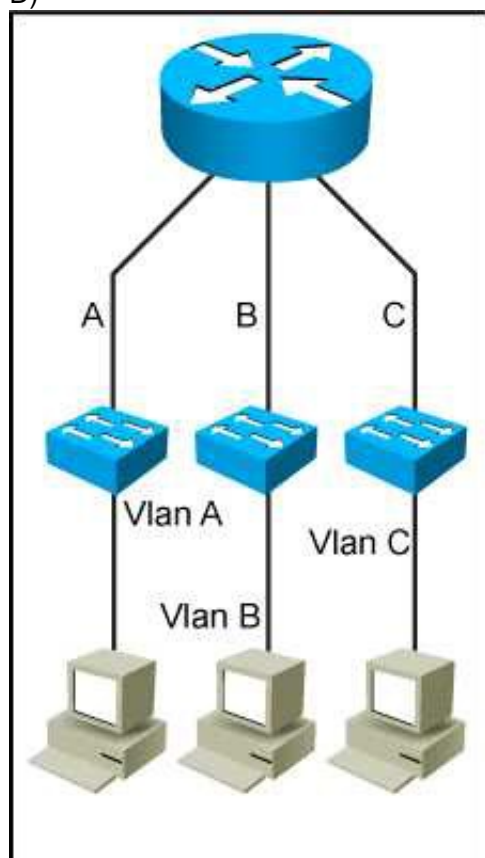
B)



C)



D)



- A. Exhibit A
- B. Exhibit B
- C. Exhibit C
- D. Exhibit D

Answer: B

NEW QUESTION 131

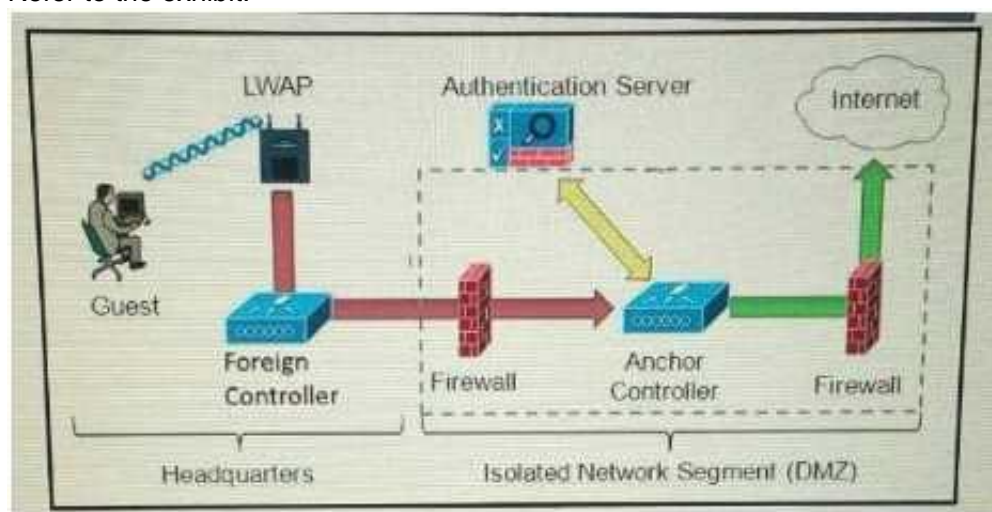
What is a design aspect regarding multicast transport for MPLS Layer 3 VPNs using the Rosen Draft implementation?

- A. LDP is the multicast control plane protocol.
- B. Multicast traffic is forwarded over GRE tunnels.
- C. Multicast traffic is forwarded over LDP or RSVP signaled LSPs.
- D. Using the MDT SAFI in BGP ensures that PIM can be disabled in the core.

Answer: B

NEW QUESTION 136

Refer to the exhibit.



Which solution must be used to send traffic from the foreign wireless LAN controller to the anchor wireless LAN controller?

- A. Encapsulate packets into an EoIP tunnel and send them to the anchor controller
- B. Send packets from the foreign controller to the anchor controller via Layer 3 MPLS VPN or VRF-Lite
- C. Send packets from the foreign controller to the anchor controller via IPinIP or IPsec tunnel
- D. Send packets without encapsulation to the anchor controller over the routed network

Answer: A

NEW QUESTION 137

Which three items do you recommend for control plane hardening of an infrastructure device?
 (Choose three)

- A. To enable unused services
- B. Warning banners
- C. Routing protocol authentication
- D. Control Plane Policing
- E. Redundant AAA servers
- F. SNMPv3

Answer: CDF

NEW QUESTION 141

Which native mechanism does OSPF use to prevent loops in MPLS VPNs?

- A. CE devices that run OSPF set the DN bit toward the PE router
- B. PE devices that run OSPF clear the DN bit toward the CE router
- C. CE devices that run OSPF clear the DN bit toward the PE router
- D. Creation of PE to PE OSPF sham link across the MPLS-created super backbone
- E. PE routers verify OSPF domain IDs used by CE OSPF processes
- F. PE devices that run OSPF set the DN bit toward the CE router

Answer: F

NEW QUESTION 146

A healthcare customer requested that health statistics from their infrastructure devices are to be sent over their service provider MPLS network. Which protocol must be enabled?

- A. SNMPv3
- B. Syslog TLS
- C. syslog
- D. SNMPv2
- E. SSH

Answer: A

NEW QUESTION 148

Which two application requirements are mandatory for traffic to receive proper treatment when placed in the priority queue? (Choose two)

- A. WRED drop treatment
- B. Small transactions (HTTP – like behavior)
- C. Tolerance to packet loss
- D. Intolerance to jitter
- E. TCP based application

Answer: CD

NEW QUESTION 149

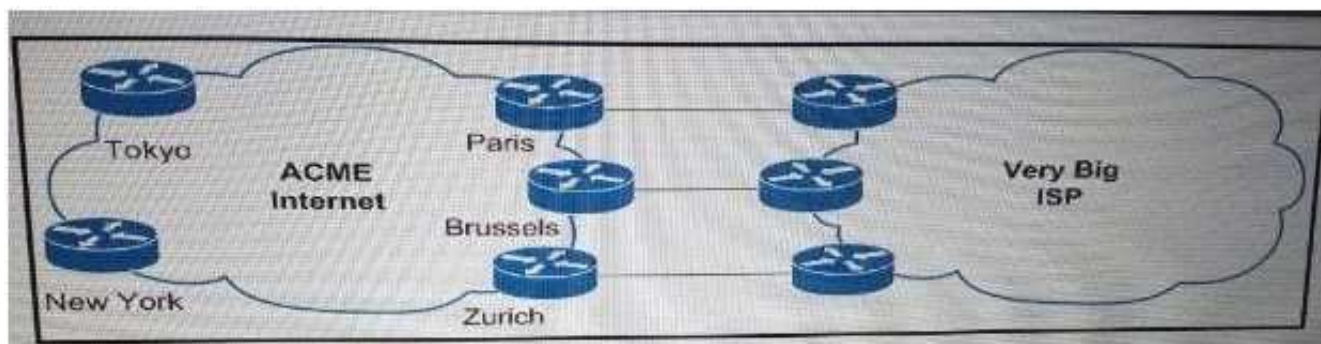
Which two functions are performed at the distribution layer of the three-layer hierarchical network design model? (Choose two).

- A. Fault isolation
- B. QoS classification and marking boundary
- C. Fast transport
- D. Reliability
- E. Load balancing

Answer: AE

NEW QUESTION 154

Refer to the exhibit.



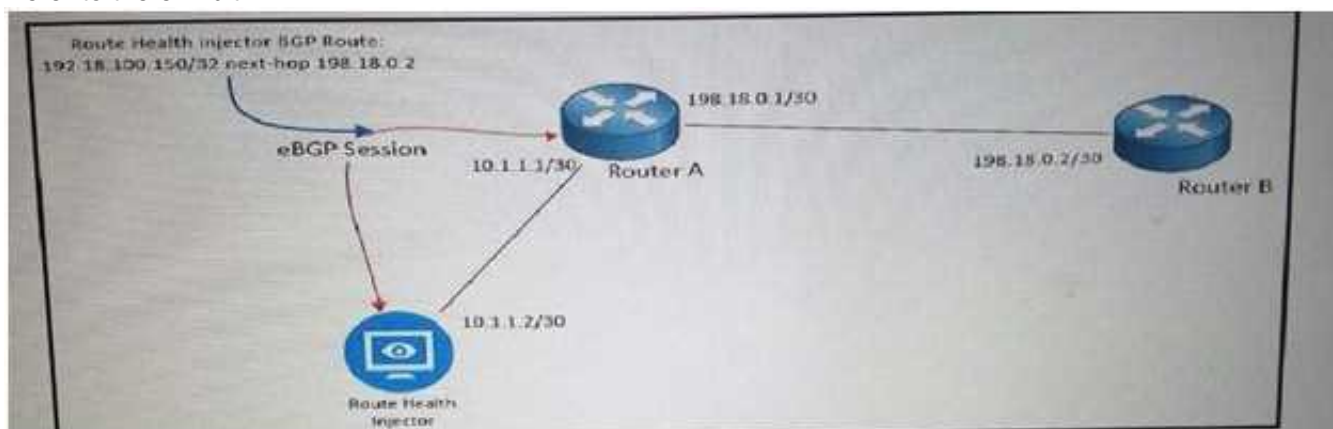
Service provider ACME Internet just added a 100 GB/s peering in Paris that it wants to use by default for outbound traffic to Big ISP. Which routing policy achieves the desired outcomes?

- A. Use traffic engineering by injecting a preferred LOCAL_PREF attribute to routes advertised from Very Big ISP in Paris
- B. Apply an import policy in New York that adds a Weight attribute to routes learned from Very Big ISP via Paris
- C. Apply an export policy in Paris by applying a MED or community attribute with a preference that very Big ISP act upon
- D. Apply an import policy that filters longer prefixes than /24 in Brussels and Zurich

Answer: A

NEW QUESTION 156

Refer to the exhibit.



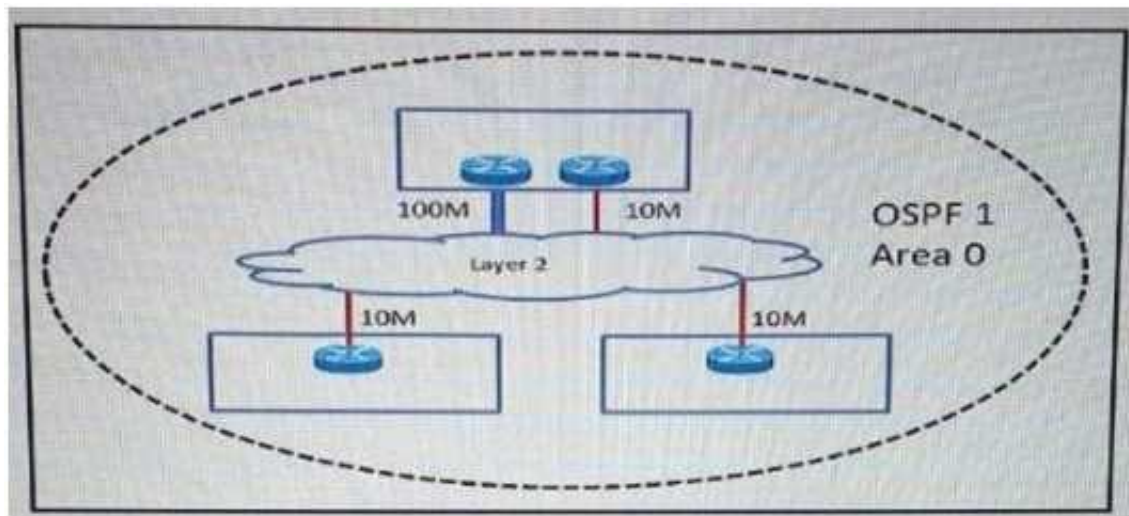
As part of your design to monitor reachable services, a route health injector has just been deployed on the network. The route health injector injects /32 host routes into BGP with the next hop of 192.18.0.2, but the /32 routes are not being installed into the RIB or FIB of Router

- A. Which BGP feature must be deployed to make be deployed to make the design to work?
- B. BGP community attributes
- C. MP-BGP
- D. BGP AS-Path prepending
- E. eBGP multihop attribute

Answer: A

NEW QUESTION 157

Refer to the exhibit.



An enterprise has three sites over a Layer 2 Metro Ethernet ELAN service. 100Mb/s and 10 Mb/s links have been provisioned to provide redundancy for the head office. When OSPF routing enabled to provide connectivity and the correct bandwidth statement has been applied to each interface, the branch sites observe two equal-cost routes to the head office. The enterprise wants to send all traffic through the 100 Mb/s link and use the 10Mb/S link strictly as a backup. Which OSPF network type must be set to ensure that the head office 100 Mb/s circuit is preferred over the 10 Mb/s circuit, at the same time minimize the amount of configuration required on all of the routers throughout the network?

- A. NBMA
- B. Point-to-multipoint
- C. Point-to-point
- D. Broadcast

Answer: C

NEW QUESTION 160

Which two functions are performed at the distribution layer of the three-layer hierarchical network design model? (Choose two)

- A. Fast transport
- B. QoS classification and marking boundary
- C. Fault isolation
- D. Redundancy and load balancing
- E. Reliability

Answer: CD

NEW QUESTION 161

What is design considerations of policy-based routing?

- A. It decreases failure detection time
- B. It can create microloops during network reconvergence
- C. It routes traffic destined to a set of users through different exit points
- D. It uses RSVP to differentiate traffic flows, so queuing mechanisms can prioritize them

Answer: B

NEW QUESTION 162

A retail company connects its 250 branches across the globe to the core using MPLS Layer 3 VPN. The company is planning to migrate its traditional telephony services to Volp, in order to reduce the cost of international calls. What are the two primary concerns when implementing this migration? (Choose two)

- A. Jitter
- B. Call routing design
- C. SRST
- D. MTU
- E. Available bandwidth

Answer: AE

NEW QUESTION 166

You are redesigning a high-speed transit network due to congestion-related issues. Which congestion avoidance mechanism can you apply to the existing network?

- A. NBAR
- B. FIFO
- C. WRED
- D. Rate-limit
- E. Policy-Based Routing

Answer: C

NEW QUESTION 170

Which effect of designing a Layer 2 network using the PortFast fast feature with PVST+ is true?

- A. It shuts down the port when receiving the superior BPDU
- B. It accelerates the network convergence on the trunk uplinks

- C. In combination with BPDU filtering, it causes the switch port to stay in the forwarding state
- D. It moves the switch port directly to the forwarding state

Answer: D

NEW QUESTION 173

How must queue sizes be designed to ensure that an application functions correctly?

- A. The default queue sizes are good for any deployment
- B. Each individual device queuing delay in chain must be less than or equal to the application required delay
- C. The queuing delay on every device in chain must be exactly the same
- D. The sum of the queuing delay of all devices in chain must be less than or equal to the application required delay

Answer: D

NEW QUESTION 178

After a large EIGRP network had automatic summarization enabled throughout, it started experiencing routing loops. Which action should you take to quickly resolve the routing loops yet to perform summarization?

- A. Redistribute connected routes at major IP networks boundaries
- B. Redesign the IP addressing scheme
- C. Increase the AD of the automatically summarized routes
- D. Replace the automatic summarization with more specific summary routes

Answer: D

NEW QUESTION 182

You are working on a network design plan for a company with approximately 2000 sites. The sites will be connected using the public Internet. You plan to use private IP addressing in the network design, which will be routed without NAT through an encrypted WAN network. Some sites will be connected to the Internet with dynamic public IP addresses, and these addresses may change occasionally. Which VPN solution will support these design requirements?

- A. GET VPN must be used, because DMVPN does not scale to 2000 sites.
- B. DMVPN must be used, because GET VPN does not scale to 2000 sites.
- C. GET VPN must be used, because private IP addresses cannot be transferred with DMVPN through the public Internet.
- D. DMVPN must be used, because private IP addresses cannot be transferred with GET VPN through the public Internet.
- E. GET VPN must be used, because DMVPN does not support dynamic IP addresses for some sites.
- F. DMVPN must be used, because GET VPN does not support dynamic IP addresses for some sites.

Answer: D

NEW QUESTION 186

A Mobile Service Provider would like to design and deploy an Ethernet service which has similar physical link failover/failback characteristics on the active/backup links as the APS/MSP SONET properties. Which Layer 2 service addresses should be considered to address this design feature?

- A. Port-Channel
- B. MLPPP
- C. Flex Link
- D. Ethernet Pseudowire

Answer: C

NEW QUESTION 191

Which three reasons to deploy an IDS sensor in promiscuous mode when you design a security solution are true? (Choose three.)

- A. Solution should be resistant to sensor failure.
- B. Solution should allow for stream normalization.
- C. Solution should not impact jitter and latency for voice traffic.
- D. Solution should allow for signature-based pattern matching.
- E. Solution should allow to deny packets inline.

Answer: ACD

NEW QUESTION 193

What is an advantage of placing the IS-IS flooding domain boundary at the core Layer in a three-layer hierarchical network?

- A. The L1 and L2 domains can easily overlap
- B. The L2 domain is contained and more stable
- C. It can be applied to any kind of topology
- D. It reduces the complexity of the L1 domains

Answer: A

NEW QUESTION 195

Which aspect is a significant disadvantage of containers?

- A. Security
- B. Time to deploy
- C. Inefficiency
- D. Reduced operational overhead
- E. Resource consumption

Answer: A

NEW QUESTION 198

Which two statements about VXLAN are true? (Choose two)

- A. VXLAN is a Cisco proprietary solution
- B. VXLAN is an encapsulation method used to create a Layer 3 overlay network
- C. VXLAN can be used to enforce Layer 2 isolation in a multitenant infrastructure
- D. VXLAN uses the Spanning Tree protocol for loop prevention
- E. VXLAN overcomes the 802.1Q virtual LAN address space limitation

Answer: BE

NEW QUESTION 201

VPLS is implemented in a Layer 2 network with 2000 VLANs. Which must be the primary concern to ensure successful deployment of VPLS?

- A. The underlying transport mechanism
- B. PE scalability
- C. Flooding is necessary to propagate MAC address reachability information
- D. VLAN scalability

Answer: C

Explanation:

[I think B not 100% sure]

NEW QUESTION 202

When is it required to leak routes into an IS-IS level 1 area?

- A. When MPLS L3VPN PE devices are configured in the level 1 areas
- B. When unequal cost load balancing is required between the backbone and nonbackbone areas
- C. When a multicast RP is configured in the nonbackbone area
- D. When equal cost load balancing is required between the backbone and nonbackbone areas

Answer: A

NEW QUESTION 207

When designing fast convergence on a network using loop-free alternate, on which two basis can the next-hop routes be precomputed? (Choose two)

- A. Per neighbor
- B. Per network type
- C. Per link
- D. Per prefix
- E. Per failure type

Answer: CD

NEW QUESTION 210

A company requires to connect two data center sites using a hub-and-spoke design. There are 2000 remote sites. It is required to transfer MPLS labeled packets over the public Internet using one router at each remote site. These MPLS labeled packets must be encapsulated inside IP packets. Which solution must be used to simplify this network design?

- A. GET VPN encrypts the MPLS packets with IPsec.
- B. DMVPN dynamically builds GRE tunnels with MPLS encapsulation inside.
- C. Site-to-site IPsec without GRE encapsulates the MPLS packets.
- D. PPPoE encapsulates the MPLS packets
- E. L2TPv3 encapsulated the MPLS packets

Answer: B

NEW QUESTION 213

A network has several routers running IS-IS L1L2 mode on the same Ethernet segment. Which action reduces to a minimum the number of IS-IS adjacencies in this segment?

- A. Define only the router on the segment to be DIS
- B. Change all routers connected to this segment to a single-level area
- C. Make the interface priority on the backup DIS lower than the primary DIS
- D. Change half the routers to be L1-only and other half to be L2-only on this segment

Answer: B

NEW QUESTION 216

Which are two open-source SDN controllers? (Choose two)

- A. Big Cloud Fabric
- B. OpenContrail
- C. Application Policy Infrastructure Controller
- D. Virtual Application Networks SDN controller
- E. OpenDaylight

Answer: BE

NEW QUESTION 219

For a redesign requirement of the service provider network, summarization was implemented at multiple locations for each summary range. Now some customers of the service provider are complaining of higher latency and performance issues for a server hosted in the summarized are

- A. Which design issues must be considered when creating the summarization?
- B. Summarization adds CPU overhead on the routers sourcing the summarized advertisement.
- C. Summarization prevents the visibility of the metric to the component subnets.
- D. Summarization causes packet loss when RPF is enabled.
- E. Summarization creates routing loops.

Answer: B

NEW QUESTION 220

A service provider must provide Internet connectivity to an MPLS Layer 3 VPN customer. Which solution allows this customer to have Internet access?

- A. Implement a global default route with a next hop in the VRF late on PE
- B. Implement policy-based routing between PE and CE
- C. Implement a default route in the VRF with a next hop in the global routing table of PE
- D. Implement destination NAT between the VRF and the global RIB of PE

Answer: C

NEW QUESTION 221

Which two SAN designs appropriate to support large-scale SAN environments? (Choose two)

- A. Edge-core-edge design
- B. Fibre Channel forwarder
- C. Split fabric design
- D. Core-edge design
- E. Dual fabric design

Answer: AD

NEW QUESTION 222

As part of network design, two geographically separated data centers must be interconnected using Ethernet-over-MPLS pseudowire. The link between the sites is stable, the topology has no apparent loops, and the root bridges for the respective VLANs are stable and unchanging. Which aspect must be the part of the design to mitigate the risk of connectivity issues between the data centers?

- A. Enable Spanning Tree on one data center, and Rapid Reconfiguration of Spanning tree on the other
- B. Ensure that the spanning tree diameter for one or more VLANs is not too large.
- C. Enable UDLD on the link between the data centers.
- D. Enable root guard on the link between the data centers.

Answer: B

NEW QUESTION 224

An enterprise campus is adopting a network virtualization design solution with these requirements
It must include the ability to virtualize the data plane and control plane by using VLANs and VRFs
It must maintain end-to-end logical path transport separation across the network
resources available grouped at the access edge
Which two primary models can this network virtualization design be categorized? (Choose two)

- A. Path isolation
- B. Session isolation
- C. Group virtualization
- D. Services virtualization
- E. Edge isolation

Answer: AD

NEW QUESTION 225

A large ISP is analysing which IGP meets these following requirements Network must be resilient against unstable MTU in one side of newly released transmission pieces of equipment Network must support MPLS traffic engineering solution for future use Which IGP must be selected and why?

- A. ISIS : in case MTU changes your TE tunnels keep the LSP stable
- B. OSPF: adjacency remains up even if MTU changes
- C. OSPF: in case MTU changes your TE tunnels keep the LSP stable
- D. ISIS: adjacency remains up even if MTU changes

Answer: D

NEW QUESTION 227

Which solution prevents microloops from be formed during network convergence time?

- A. RSVP-TE
- B. LFA
- C. Prefix suppression
- D. RLFA

Answer: D

NEW QUESTION 230

Which feature must be part of the network design to wait a predetermined amount of time before notifying the routing protocol of a change in the path in the network?

- A. Transmit delay
- B. Throttle timer
- C. SPF hold time
- D. Interface dampening

Answer: B

NEW QUESTION 233

Which statement about SDN framework environment is true?

- A. The control plane functions is split between a SDN controller and the networking element
- B. The data plane is pulled from the networking element and put in a SDN controller
- C. The data plane is controlled by a centralized SDN element
- D. The control plane is pulled from the networking element and put in a SDN controller
- E. The control plane and data plane is pulled from the networking element and put in a SDN controller and SDN agent

Answer: D

NEW QUESTION 235

How can jitter be compensated on an IP network that carries real-time VoIP traffic with acceptable voice transmission quality?

- A. Set up VAD to replace gaps on speech with comfort noise
- B. Change CODEC from G.729 to G.711
- C. Deploy RSVP for dynamic VoIP packet classification
- D. Set up a playout buffer to play back the voice stream

Answer: D

NEW QUESTION 236

In a network with dynamic mutual redistribution between multiple OSPFv2 and EIGRP boundaries, which two mechanisms avoid suboptimal routing? (Choose two)

- A. Route filtering
- B. AD manipulation
- C. Matching EIGRP process ID
- D. Matching OSPF external routes
- E. Route tagging

Answer: AE

NEW QUESTION 241

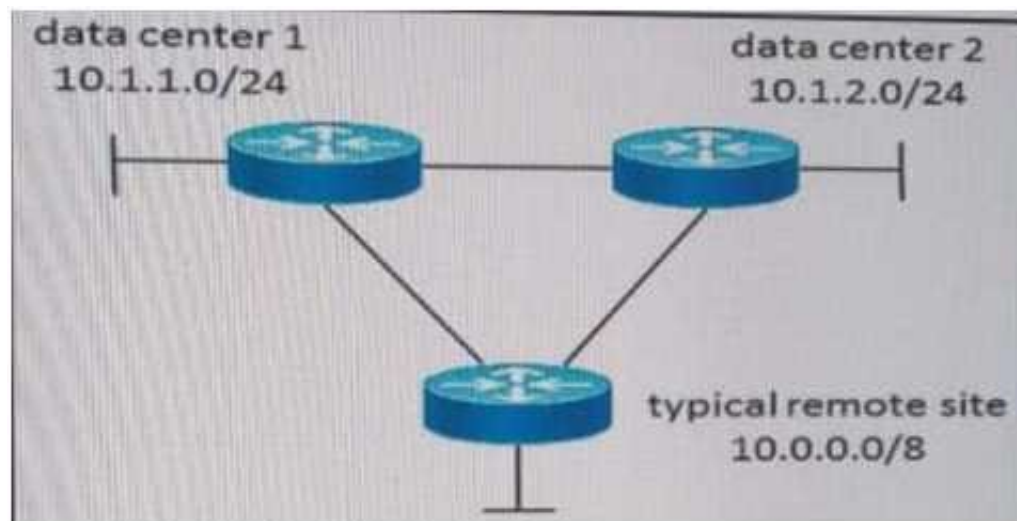
In an Ethernet link containing five routers with OSPF network interface type configured as broadcast, how many OSPF adjacencies are established on this Ethernet link?

- A. 7
- B. 5
- C. 10
- D. 20
- E. 6

Answer: A

NEW QUESTION 244

Refer to the exhibit.



A customer currently has a large EIGRP-based network with several remote sites attached. All remote sites connect to the two corporate data centers, depicted as 10.1.1.0 and 10.1.2.0. The customer has experienced several network-wide failures where neighbors were stuck-in-active and had other network stability issues due to some links flapping. Which two redesign options increase stability and reduce the load on the remote site routers, still maintaining optimal routing between remote sites and the two data centers? (Choose two)

- A. Set the data center routers as stub-routers
- B. Perform summarization at the data centers, selectively leaking routes sent to the remote sites
- C. Perform summarization at the remote sites, selectively leaking routes sent to the data centers
- D. Set the hello interval timer to be larger than the hold interval
- E. Increase the hold interval to accommodate lost hello packets on error-prone links

Answer: AB

NEW QUESTION 247

What is an effect of using ingress filtering to prevent spoofed addresses on a network design?

- A. It reduces the effect of DDoS attacks when associated with DSCP remarking to Scavenger
- B. It protects the network infrastructure against spoofed DDoS attacks
- C. It filters RFC 1918 addresses
- D. It classifies bogon traffic and remarks it with DSCP bulk

Answer: B

NEW QUESTION 248

DRAG DROP

What is the definition of jitter, and how must network designers compensate for jitter so an IP network can carry real-time VoIP traffic?	
Jitter is the actual delay between the time a packet is expected to transmit and when it actually transmits.	Definition of jitter
Jitter is the variation between the time a packet is expected to arrive and when it actually arrives.	
Jitter is the variation between the time a packet is expected to drop and when it actually drops.	How to compensate for jitter
Set up a play-in buffer to play back the voice stream in a smooth fashion and avoid discontinuity in the voice stream.	
Set up a play-out buffer to play back the voice stream in a smooth fashion and avoid discontinuity in the voice stream.	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Definition of jitter

Jitter is the variation between the time a packet is expected to arrive and when it actually arrives.

How to compensate for jitter

Set up a play-out buffer to play back the voice stream in a smooth fashion and avoid discontinuity in the voice stream.

NEW QUESTION 249
DRAG DROP

When developing a multicast network design, SSM should be used for which type of source and receiver distribution?

limited sources

many sources

limited receivers

many receivers

Source Distribution

Target

Receiver Distribution

Target

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

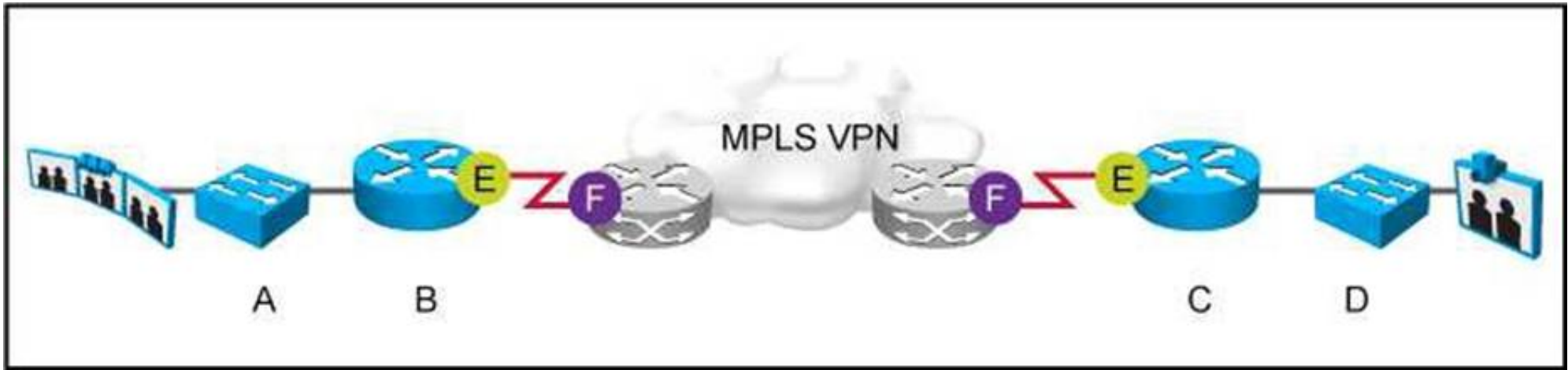
Source Distribution

limited receivers

Receiver Distribution

many receivers

NEW QUESTION 251
DRAG DROP
Refer to the exhibit.



Company ACME is adding a Cisco TelePresence system for real-time collaboration and wants to ensure the highest user experience. Drag and drop the necessary QoS mechanisms from the left to the right in any order. Not all options will be used.

Enable policer on switches A and D

Enable LLQ or CBWFQ for real-time interactive (CS4)

Rewrite DSCP to 0 to ensure equal treatment for all traffic

Enable HQoS shaper on router interface E if necessary

Enable HQoS shaper on router interface F

Enable CBWFQ for signaling traffic (CS3)

Remark traffic at router interface F

Trust DSCP at switches A and D

Remark DSCP at router interface E

QoS mechanism 1

QoS mechanism 2

QoS mechanism 3

QoS mechanism 4

QoS mechanism 5

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Enable LLQ or CBWFQ for real-time interactive (CS4)

Enable HQoS shaper on router interface E if necessary

Enable CBWFQ for signaling traffic (CS3)

Trust DSCP at switches A and D

Remark DSCP at router interface E

NEW QUESTION 255

DRAG DROP

Drag and drop the technology details or features support on the left into the corresponding Layer 2 multipath technologies on the right. Not all options will be used.

IETF standard

vPC+ supported

FHRP active/active supported

shared interswitch links supported

extension of OSPF

multiple topologies supported

TRILL

Target 1

Target 2

FabricPath

Target 3

Target 4

Target 5

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

TRILL

IETF standard

shared interswitch links supported

FabricPath

vPC+ supported

FHRP active/active supported

multiple topologies supported

NEW QUESTION 258
DRAG DROP

As a network designer for a major multiservice network, your first assignment is to improve the IS-IS convergence to meet application requirements. Drag and drop the convergence tools or techniques to be used on your proposal from the left into the corresponding convergence phase on the right.

- SPF throttling
- LSA throttling
- LSP throttling
- IS-IS hello interval
- limit LSP flooding
- prefix prioritization

- event detection
- event propagation
- event processing
- RIB updating

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

- IS-IS hello interval
- LSP throttling
- SPF throttling
- prefix prioritization

NEW QUESTION 262
.....

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