352-001 Dumps

CCDE Written Exam

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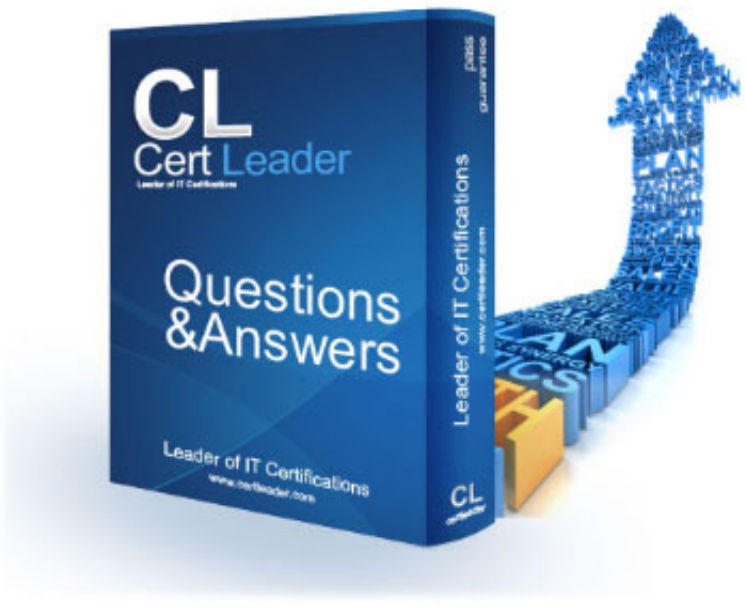


NEW QUESTION 1
The cloud service provider CSP is planning to launch five data centers in Egypt, United Arab Emirates, Saudi Arabia, Qatar and Turkey. CSP is looking for VLAN extension and DCIs between these five data centers to allow for software replication, where original and backup VMs must be on the same subnet. Which tunneling technology must they use?

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

Answer: A

NEW QUESTION 2
ACME Corporation is integrating IPv6 into their network, which relies heavily on multicastdistribution 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 3
What are two benefits of following a structured hierarchical and modular design? (Choose two.)

A. Each component can be designed independently for its role.
B. Each component can be managed independently based on its role.
C. Each component can be funded by different organizations based on its role.
D. Each component can support multiple roles based on the requirements.
E. Each component can provide redundancy for applications and services.

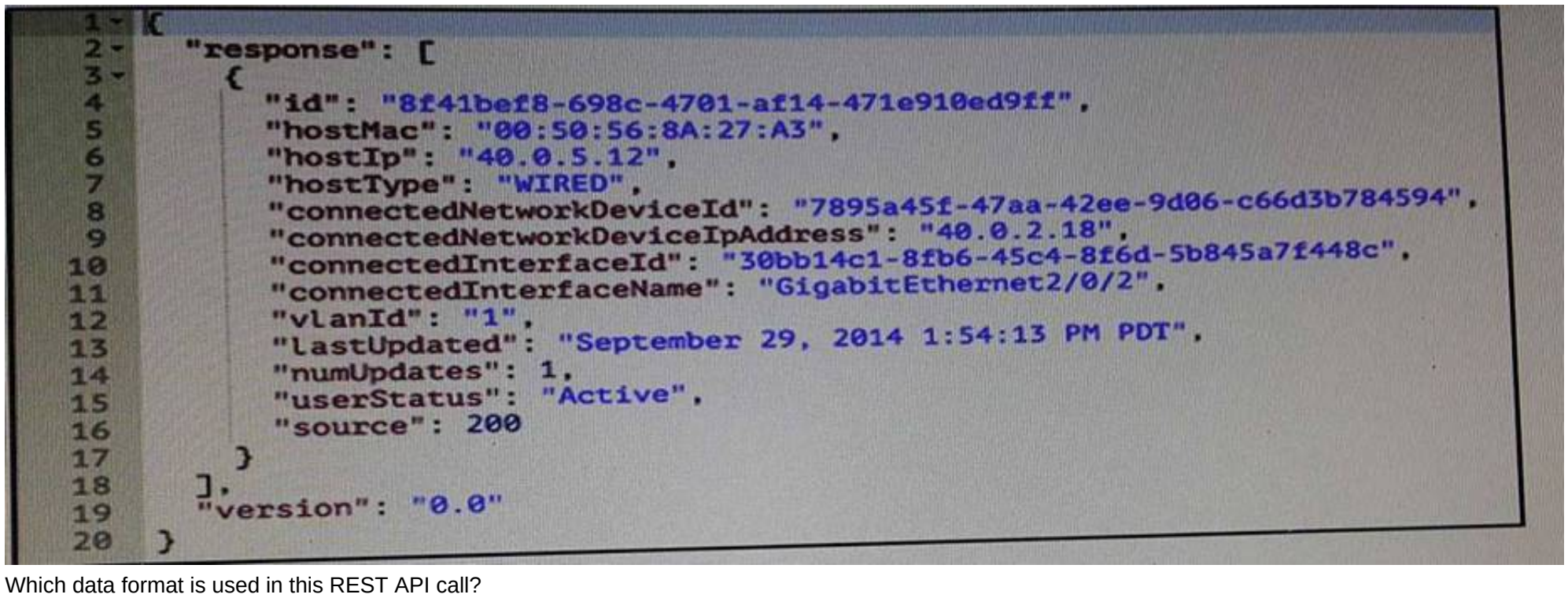
Answer: AB

NEW QUESTION 4
Which three options are important design functions of IPv6 first-hop security? (Choose three)

A. It prevents rogue DHCP servers farms assigning IPv6 addresses.
B. It prevents IPv6 packets fragmentation.
C. It limits IPv6 route the 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 5
Refer to the exhibit.



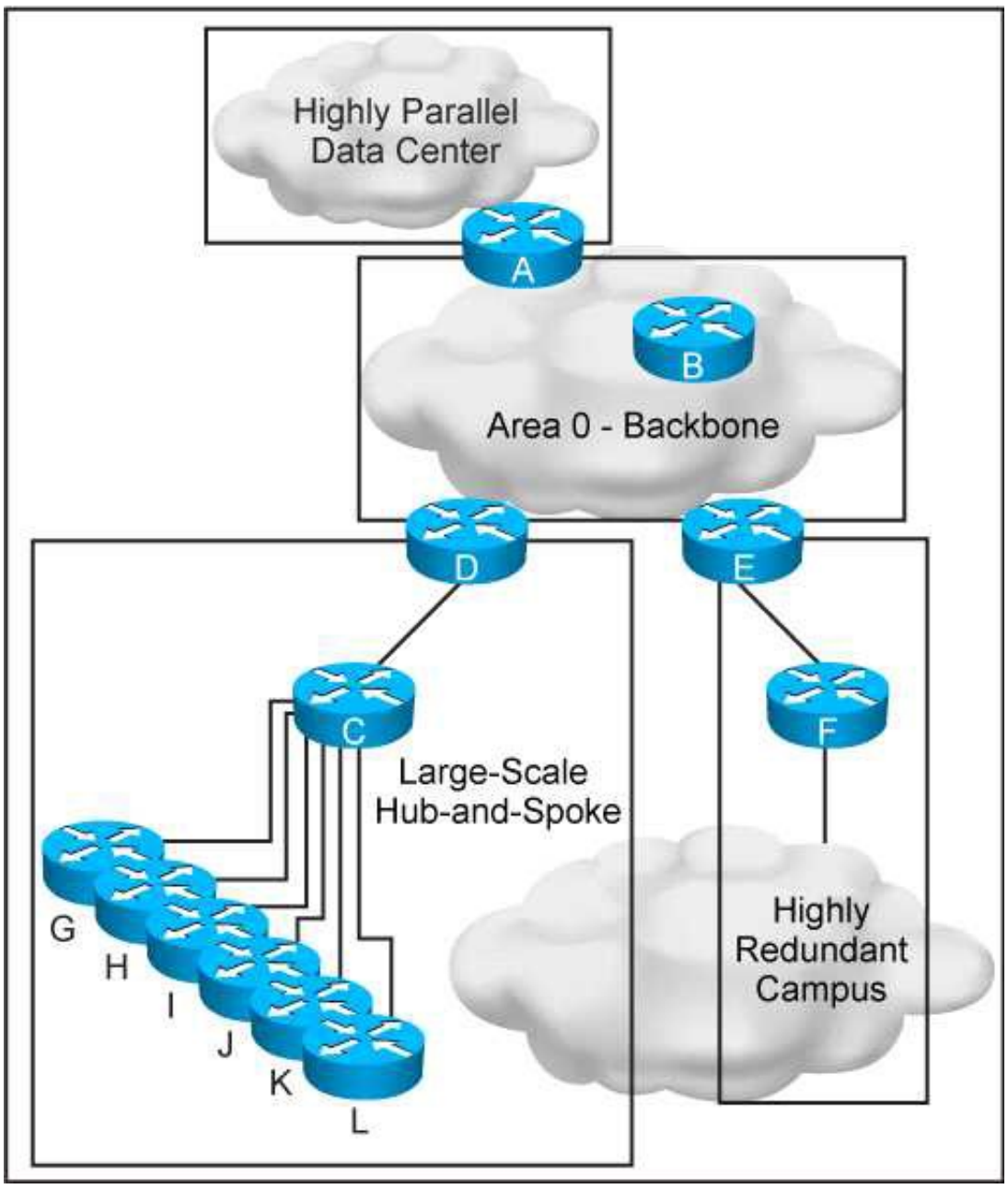
Which data format is used in this REST API call?

A. JSON
B. HTMLv5
C. HTML
D. XML

E. BASH

Answer: A

NEW QUESTION 6
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

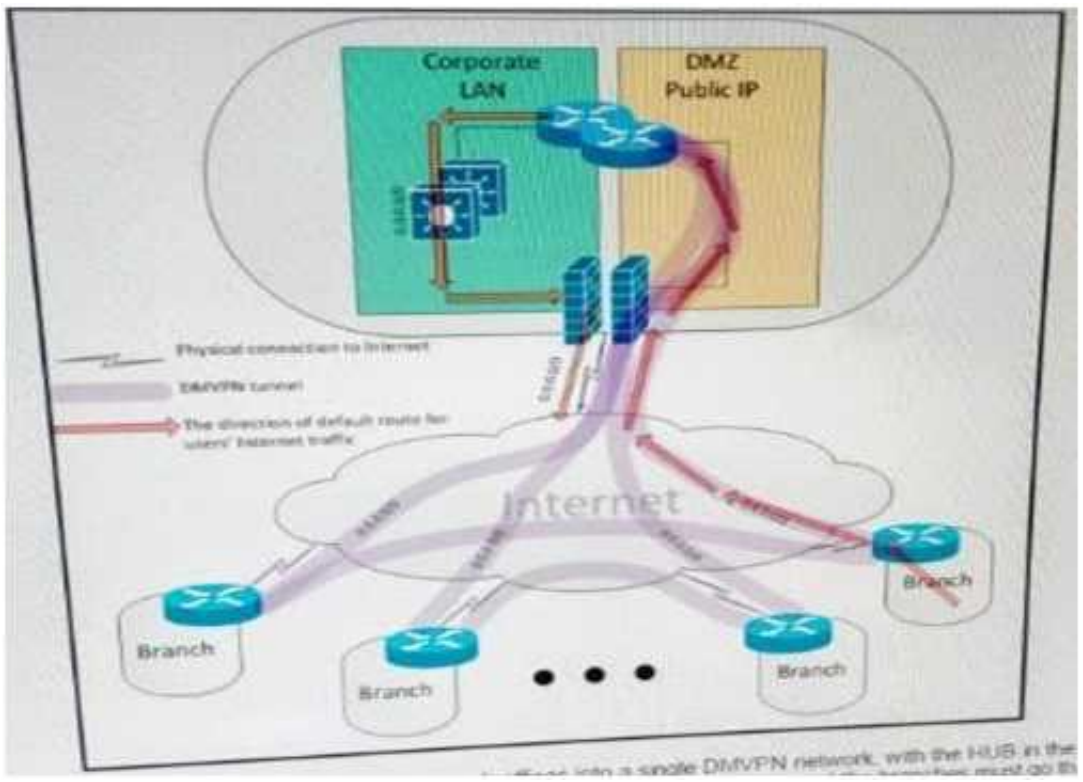
Answer: BD

NEW QUESTION 7
Which IEEE standard is commonly used at the data link layer for an access network, in an IoT environment?

A. Wireless Regional Area Network
B. Low-Rate Wireless Network
C. Wireless Local Area Network
D. Broadband wireless metropolitan Network

Answer: B

NEW QUESTION 8
Refer to the exhibit.

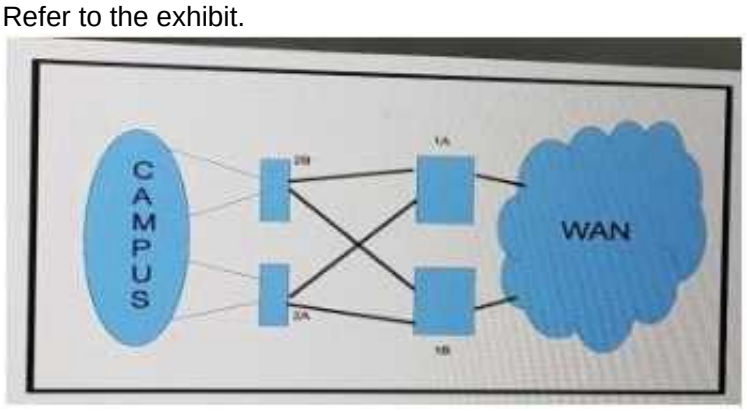


A customer interconnected hundreds of branch offices into a single DMVPN network, with the HUB in the main data center. Due to security policies, the customer requires that the default route for all Internet traffic from the users at the branches must go through the tunnel and the only connections that 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 9
Refer to the exhibit.

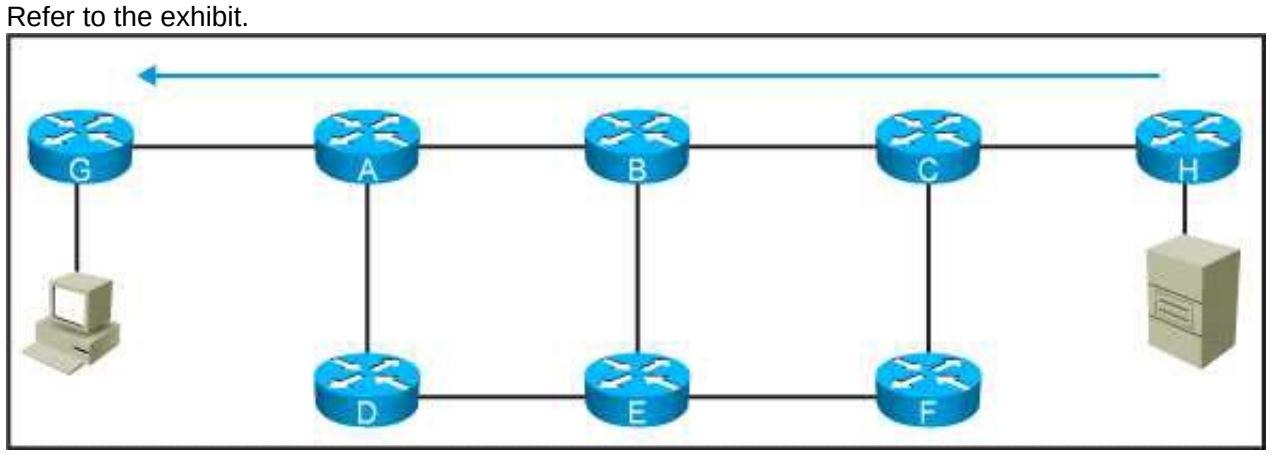


How should you redesign this network running BGP to improve availability of the routers 1A and 1B at the core site?

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
Refer to the exhibit.



This network is running IS-IS as the single routing protocol and the LSP and SPF timers are aggressively configured so the network converges in subsecond. The customer reports that router B had a memory crash and reloaded. Which resulted in some packets from the application being lost. The application servers are behind router G and the end users are behind router H, which design change should be made to prevent this packet-loss problem from reoccurring?

A. Use asymmetric carrier delay timer
B. Deploy all links as point-to-point
C. Redesign the network as a flat level 2
D. Optimize the LSP/SPF timers to send LSPs immediately after a topology change

E. Enable the advertisement of the overload bit for a specific amount of time after reload on router B

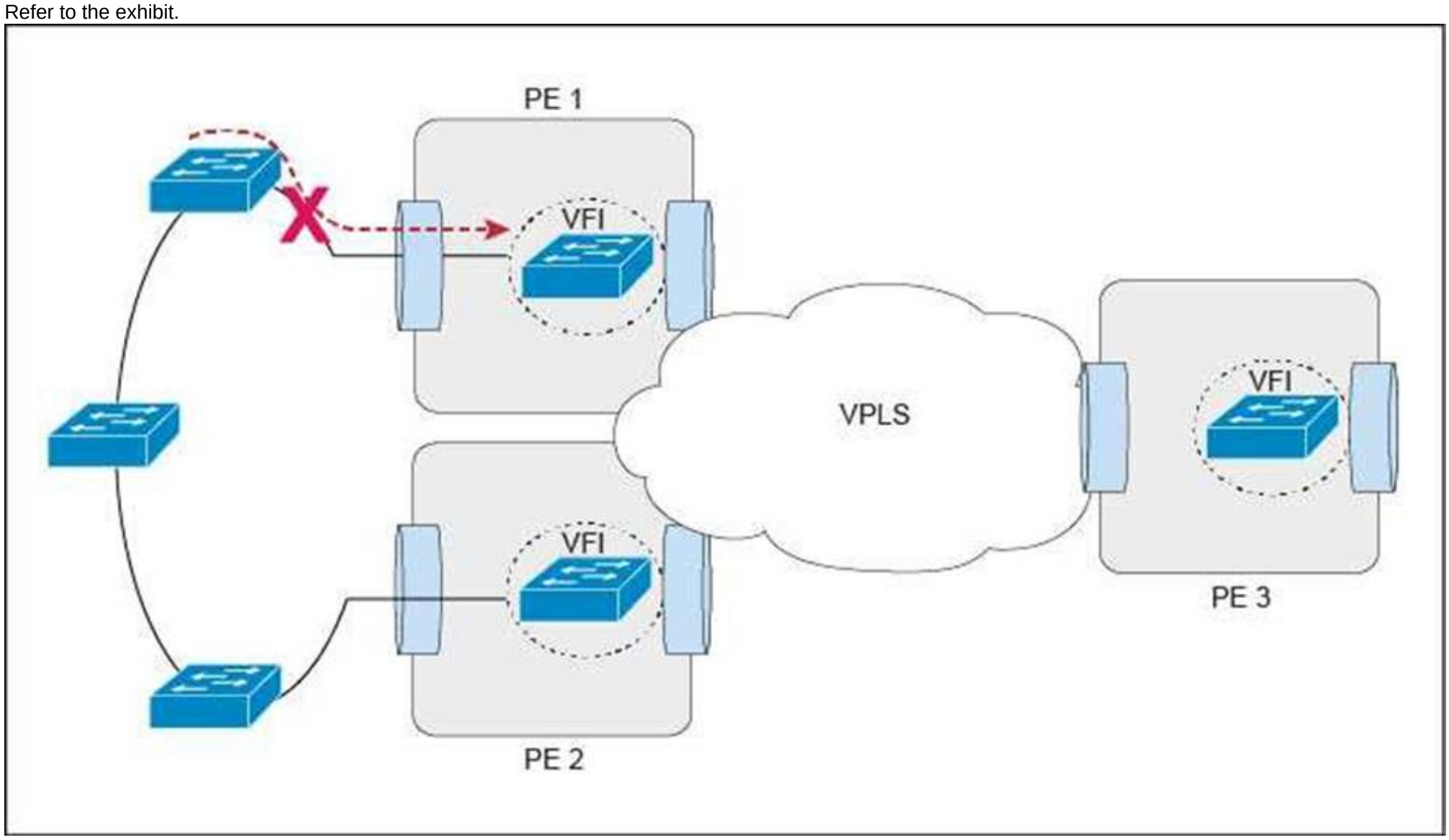
Answer: E

NEW QUESTION 10
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 11
Refer to the exhibit.



This Layer 2 ring has 10 VLANs with 1000 MAC addresses in each VLAN. Which protocol or mechanism provides the shortest traffic outage if the link marked with "X" fails?

A. Ethernet linear protection switching
B. PVRST
C. MST
D. Ethernet ring protection switching

Answer: D

NEW QUESTION 12
An operations engineer asks for your help with a new switching deployment. The engineer confirms that STP is enabled on an edge switch, and a particular port is connected to another switch. The switch is not receiving configuration BPDUs, although it appears that everything is functioning correctly in the network. What is the design explanation?

A. Bridge Assurance is enabled on the port
B. Storm control broadcast is enabled on the port
C. REP is enabled on the port
D. BPDU Guard is enabled on the port

Answer: C

NEW QUESTION 15
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 option is a design consideration when using routers in a distributed hardware architecture?

A. Routing information is stored in the RIB and the FIB makes forwarding decisions as programmedon the line card hardware
B. After a link failure occurs in the core, the RIB continues to forward the traffic while FIB convergence is in progress
C. BGP routes are stored in the RIB and IGP routes are stored in the FIB
D. IP routes are stored in the RIB and MPLS labels are stored in the FIB

Answer: A

NEW QUESTION 21
There is an MPLS-enabled link constantly flapping on an MPLS VPN network. Given that the network runs OSPF as the IGP protocol, which design mechanism will stabilize the network and avoid constant re-convergence?

A. IP Event Dampening
B. OSPF fast hellos
C. IP SLA
D. Partial SPF

Answer: A

NEW QUESTION 23
Which option is a benefit of using N-Port Virtualization?

A. reduces the amount of domain IDs that are used in the fabric
B. does not need to create zoning
C. reduces latency when using local switching on Fibre Channel ports
D. allows trunking to the upstream switch
E. does not need to configure the upstream switches

Answer: A

NEW QUESTION 24
You are designing an optical network. Your goal is to ensure that your design contains the highest degree of resiliency. In which two ways should you leverage a wavelength-switched optical network solution in your network design? (Choose two.)

A. a wavelength-switched optical network guarantees restoration based strictly on the shortest path available
B. a wavelength-switched optical network provides fault tolerance for single failures only
C. a wavelength-switched optical network takes linear and nonlinear optical impairment calculation into account
D. a wavelength-switched optical network assigns routing and wavelength information
E. a wavelength-switched optical network eliminates the need for dispersion compensating units in a network

Answer: CD

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 large enterprise network running IS-IS wants to deploy IGP traffic engineering, but they are concerned that the IS-IS default metrics are not flexible enough. Which feature must be enabled to provide traffic engineering with the minimum amount of changes?

A. IS-IS Narrow Metrics
B. IS-IS DIS
C. IS-IS Wide Metrics
D. IS-IS Multitopology

Answer: C

NEW QUESTION 31
You are implementing a one-to-many multicast solution for a large service provider network. Which technology offers optimal routing of multicast traffic?

A. PIM sparse mode
B. PIM SSM
C. Anycast RP
D. MSDP
E. Bidirectional PIM.

Answer: B

NEW QUESTION 33
What is the definition of TOGAF framework?

A. A framework for enterprise IP address management (IPAM) based on the IANA trusted IP lease allocation scheme.
B. A series of tools for process improvement that uses statistical method to reduce defect in process and manufacturing.
C. A framework for enterprise architecture that provides a comprehensive approach for designing planning implementing and governing enterprise information architecture.
D. A five-volume framework for service management that covers design transition and delivery ofservice and from which the ISO 20000 was developed.
E. An ISO framework that establishes a module for network management and contains guidelines for managing object the management database and the application entity.

Answer: C

NEW QUESTION 38
You are designing a WAN network solution with EIGRP based on VPLS. The interface speed is 10Mb/s,
but the access rate of the WAN connection is 256 Kb/s. What should you include in the network design, in order to avoid potential issues with EIGRP?

A. Limit EIGRP traffic to the access rate with a policer.
B. Tag outbound EIGRP traffic and have the WAN provider add it to the priority queue.
C. Limit traffic to the access rate with interface traffic shaping.
D. Set the interface bandwidth to match the access rate.

Answer: D

NEW QUESTION 39
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 40
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 41
Which two design aspects should a metro service provider consider when planning to deploy REP for his backbone? (Choose two.)

A. Two REP segments can be connected redundantly at two points, one connection will be blocked as per the STP defined in IEEE 802.1d.
B. UDLD can be enabled on REP interfaces to detect unidirectional failures.
C. The guaranteed convergence recovery time is less than 50 ms for the local segment.
D. A REP segment is limited to a maximum of seven devices.
E. VLAN load balancing for optimal bandwidth usage is supported in any REP segment.

Answer: BE

NEW QUESTION 46
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 48
You are presented with requirements to design a development, testing and production environments. These environment should communicate with each other, yet they should be kept as separate failure domains. Which routing protocol should be configured on the links between the networks to support the design requirements?

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

Answer: D

NEW QUESTION 49
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 54
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 55
You are consultant network designer for a large GET VPN deployment for a large bank with International coverage. Between 1800 and 2000 remote locations connect to the central location through four hubs using an MPLS backbone and using two keys servers. The bank is concerned with security and replay attacks. Which two actions should you use to tune the GET VPN to meet the bank requirements? (Choose two)

A. Increase the cryptographic key size.
B. Replace unicast rekey with multicast rekey.
C. Reduce the SAR clock interval duration
D. Increase the TEK and KEK lifetime.
E. Reduce the Dead Peer Detection periodic timer.

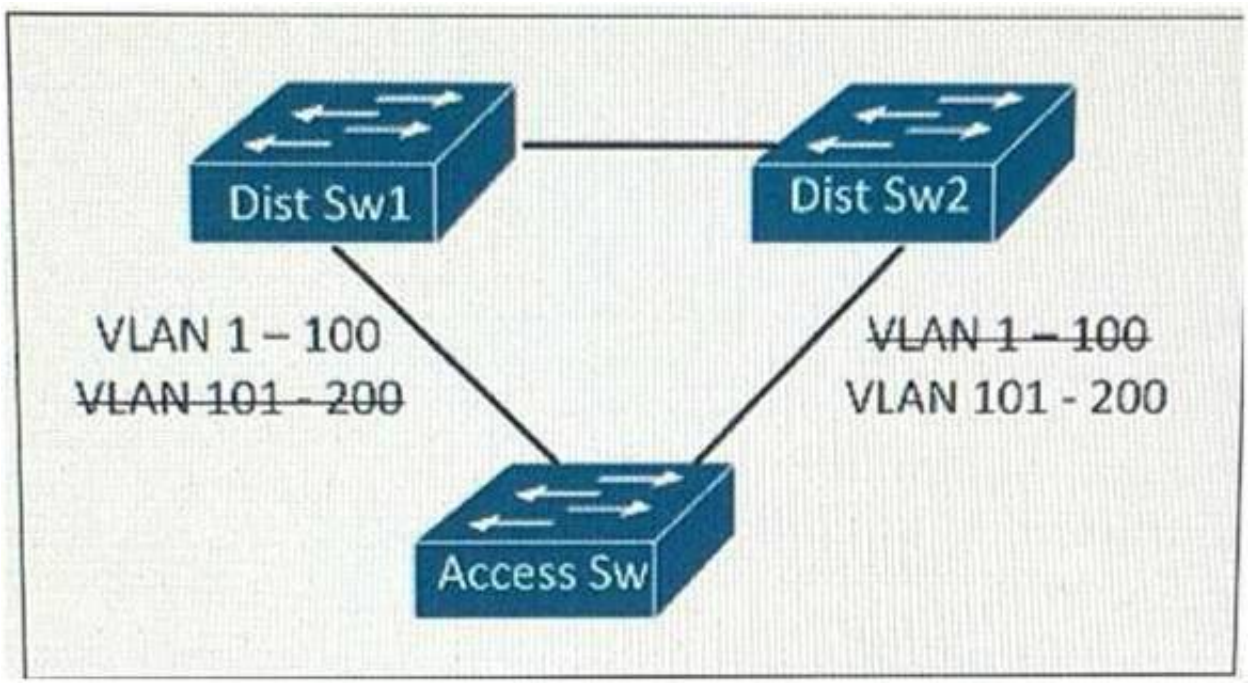
Answer: BC

NEW QUESTION 57
The enterprise customer ABC Corp will deploy a centralized unified communications application to provide voice, and instant messaging to their branch offices. Some of the branch offices are located in remote locations and are connected via a 1.5 Mb/s Layer 3 VPN connection. Which two ways are the most cost-effective to ensure that this new application is implemented properly? (Choose two)

A. Use a low bitrate codec such as G 711
B. Set voice activity detection to avoid sending packets when the conversations is silent
C. Enable VRF-Lite on the CE router to create a separate voice VRF
D. Set LFI on the WAN connections to interleave the small voice packets with the large data packets
E. Set WAN optimization on the CE router to compress the voice packets for improved bandwidth utilization and performance
F. Use a low bitrate codec such as G 729

Answer: BF

NEW QUESTION 61
Refer to the exhibit.



This layer 2 network is expected to add 150 VLANS over the next year, In addition to the existing 50 VLANs within the network which STP types will support this design requirement the least amount of CPU resource and achieving load balancing?

A. PVST+
B. CST
C. MST
D. RSTP

Answer: C

NEW QUESTION 66
In an OSPF network, users in a particular OSPF non-backbone area are complaining about show
access speeds to a shared corporate resource in another OSPF area. Traceroutes show that the users are taking a suboptimal default route to the destinations. Which solution will improve access speed?

A. Make the area totally stubby so that the default can be followed along the best path
B. Create a virtual link between the areas so that traffic can shortcut directly between them
C. Leak specific summaries on the ABRs for the remote subnets in addition to the default
D. Implement policy routing to channel the traffic in the optimal direction

Answer: C

NEW QUESTION 70
You are designing a data center migration from one location to another, which requires all existing
VLANs spanned to the new data center to maintain host IP addressing. Two temporary Gigabit Ethernet circuits are available to extend the VLANs at Layer 2 to the location as trunk links between core switches in each location. Which solution provides maximum fault isolation between the two data centers to ensure a Layer Issue in one data center does not affect the other during the migration?

A. Perform BPDU filtering over the trunk links
B. Enable STP PortFast on host ports within each data center
C. Run the dual links as multichassis Etherchannel trunk between core switches within each location
D. Perform HSRP filtering over the trunk links to maintain active HSRP gateways within each data center for each VLAN

Answer: A

NEW QUESTION 74
When designing a network .Which method can be used to control the exit point for traffic an autonomous system, at the layer 3 control plane?

A. Prepending AS path.
B. Tuning the multi-exit discriminator.
C. Setting the site of Origin extended community.
D. Tuning the metric of the under-tying IGP.

Answer: D

NEW QUESTION 78
Which two general SDN characteristics? (Choose two)

A. Southbound interfaces are interfaces used between the control plane and the date 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

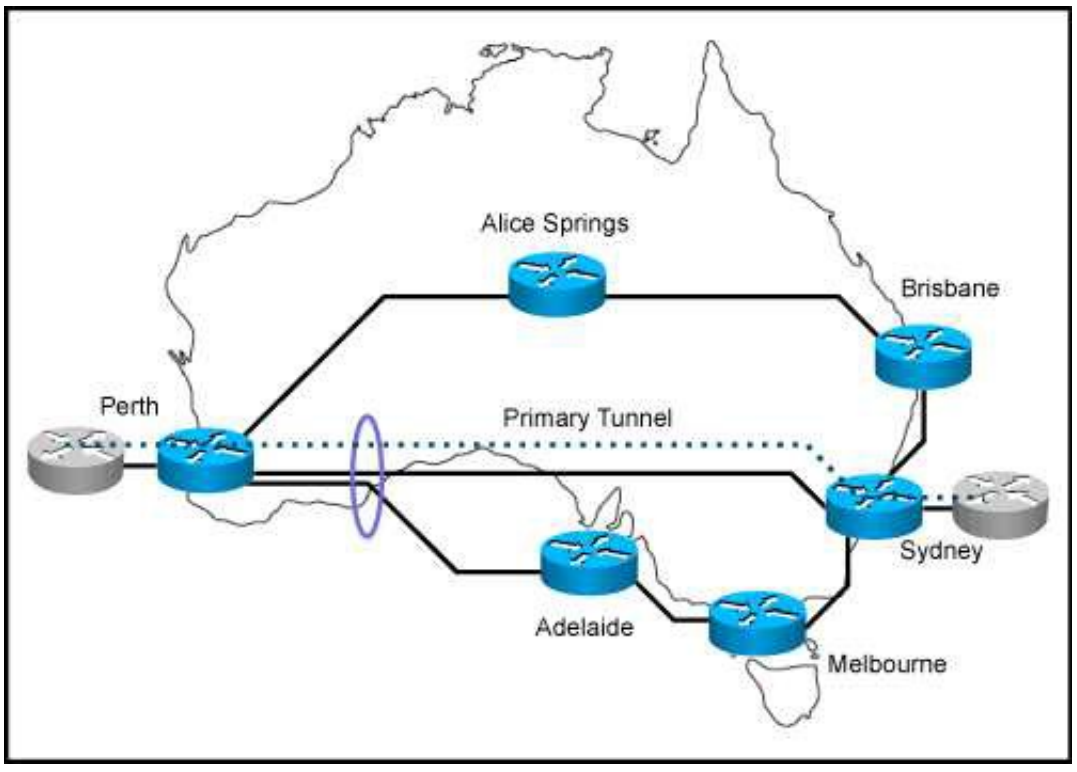
NEW QUESTION 83
A switched network is being designed to support a manufacturing factory. Due to cost constraints,

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 86
Refer to the exhibit.

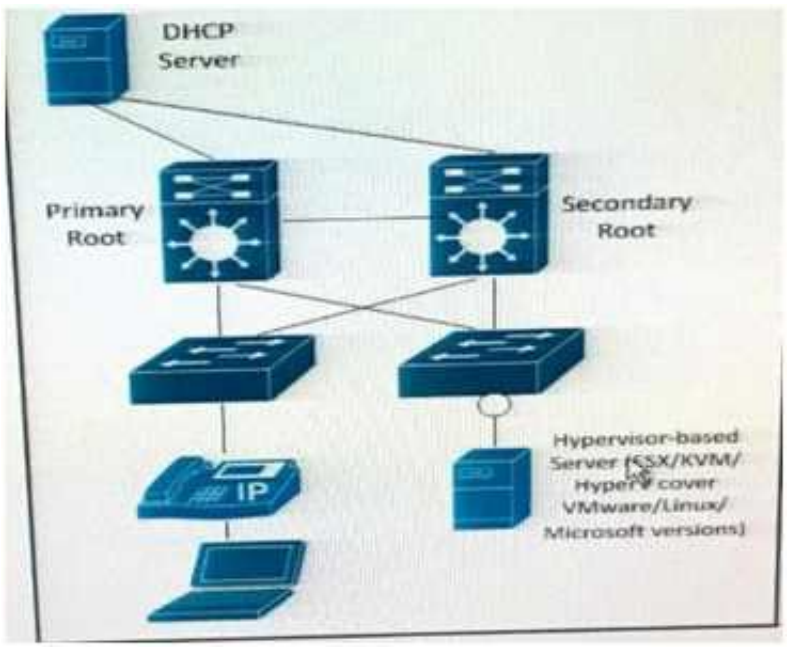


You are designing MPLS-TE for this network. The links form Perth to Sydney and from Perth to Adelaide share the same optical fiber in one given segment. Which feature should you implement to eliminate the risk that a backup tunnel is installed over the same optical fiber as the primary one?

A. Shared Risk Link Groups
B. MPLS-TE Path Protection
C. MPLS-TE auto-tunnel backup
D. MPLS-TE Link protection

Answer: A

NEW QUESTION 91
Refer to the Exhibit.

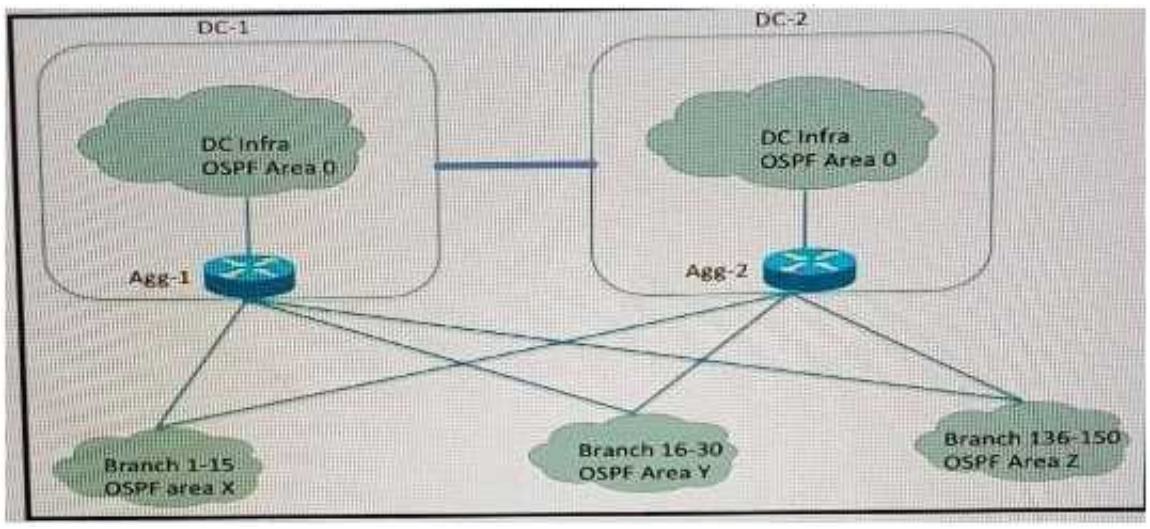


The server is running multiple VLANs on its NIC. Which two Layer 2 features should be applied to the network location identified by a circle? (Choose two)

A. UDLD
B. BPDU guard
C. BPDU filtering
D. Port Fast
E. Loop guard
F. PortFast trunk

Answer: BF

NEW QUESTION 95
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

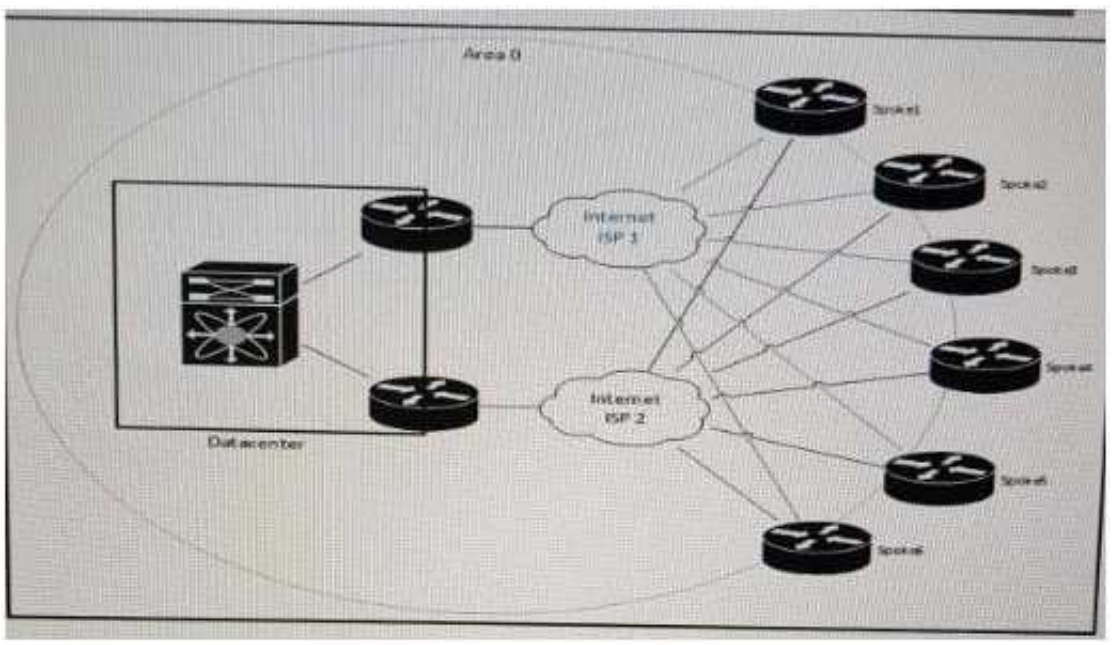
Answer: C

NEW QUESTION 96
An network is designed to use OSPF to reach eBGP peers. Which condition should be avoided in the design to potentially prevent the eBGP peers do not flap continuously in case of link failure?

A. Disable BGP synchronization.
B. Advertise IP addresses used on eBGP peer statement via a non-backbone OSPF area.
C. Advertise via eBGP IP addresses used on eBGP peer statements.
D. Use an ACL to block BGP in one direction.

Answer: C

NEW QUESTION 100
Refer to the exhibit.

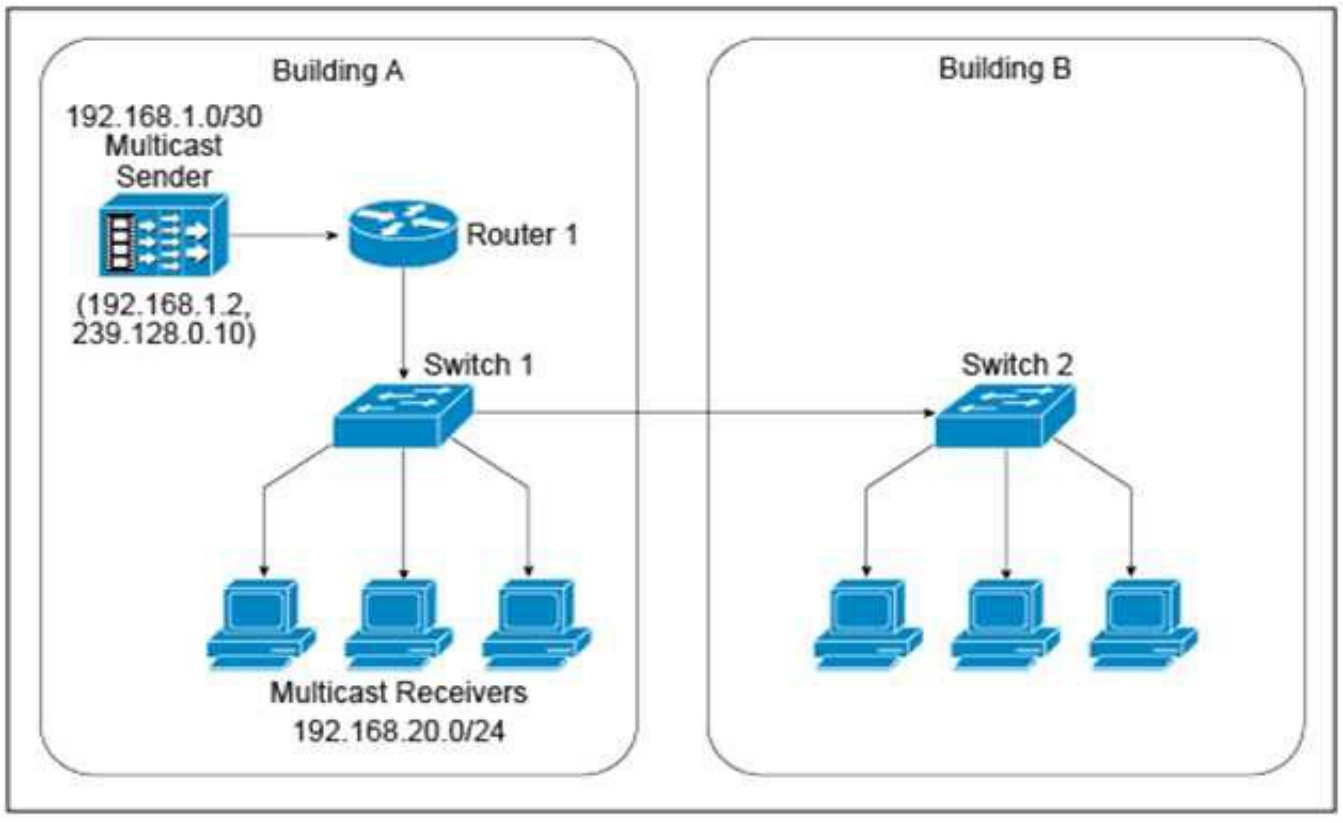


You must review this single OSPF area, DMVPN network because the company has noticed a few area 0 convergence and stability issues. Also, traffic destined to the data center from one of the spokes as the next hop on the path. The company prefers that all traffic destined to the data center uses the least amount of hops.
Which solution resolves these issues with the minimum amount of changes on the network?

A. Migrate from OSPF to static routes between the hub routers and the spoke routers and deploy IP SLA for route health checks
B. Migrate from OSPF to EIGRP between the hub routers and the spoke routers
C. Modify OSPF cost metrics on all backup links
D. Create areas between each hub and their spoke routers, to ensure that the hub routers become DRs

Answer: C

NEW QUESTION 101
Refer to the exhibit.



A new IPv4 multicast-based video-streaming service is being provisioned. During the design- validation tests, you realize that the link between the two buildings is carrying multicast traffic even when there are no receivers connected to the switch in Building B and despite IGMP snooping being enabled on both Layer 2 switches and IGMPv2 runs on the hosts. Which design change will prevent the multicast traffic from being unnecessarily flooded throughout the campus network?

A. Enable PIM snooping on both Layer 2 switches.
B. Enable multicast storm control on the link between Switch 1 and Switch 2.
C. Use static Layer 2 MAC forwarding entries on Switch 1.
D. Change the IPv4 multicast group address such that it excludes the usage of link-local MAC addresses.
E. Ensure that Switch 1 is an IGMP querier.

Answer: D

NEW QUESTION 103
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 106
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 111
Which option is a critical mechanism to optimize convergence speed when using MPLS FRR?

A. IGP timers
B. Bandwidth reservation
C. Shared risk link groups
D. Down detection

Answer: D

NEW QUESTION 113
Which option describes a design benefit of root guard?

A. It prevents switch loops caused by unidirectional point-to-point link condition on Rapid PVST+ and MST.
B. It prevents switch loops by detecting on one-way communications on the physical port.
C. It allows small, unmanaged switches to be plugged into ports of access switches without the risk of switch loops.
D. It makes the port go immediately into the forwarding state after being connected.
E. It prevents switched traffic from traversing suboptimal paths on the network.
F. It does not generate a spanning-tree topology change upon connecting and disconnecting a station on a port.

Answer: E

NEW QUESTION 118
A service provider is designing a new backbone based on an IGP and MPLS what are two valid reasons for implementing MPLS-TE as well? (Choose two)

A. MPLS-TE is required to reroute traffic within less than 1 second in case of a link failure inside thebackbone
B. MPLS-TE can detect and react to neighbor failures faster than IGPs can
C. MPLS-TE is required to route different MPLS QoS Service classes through different paths
D. MPLS-TE is required to create backup paths independently from the IGP
E. MPLS-TE is a prerequisite for implementing RSVP in the backbone

Answer: CD

NEW QUESTION 121
Company ABC grew organically and now their single-area OSPF network has an unacceptably slow convergence time after a topology change. To address the slow convergence time, they want to introduce a multiarea OSPF design and implement address summarization at the area border routers, which option should be their main concern about this redesign?

A. Routing is suboptimal
B. SPF calculation takes longer
C. Operations complexity is increased
D. More memory is needed across the routers on the network

Answer: A

NEW QUESTION 124
Which three processes are part of the ITILv3 Service Operation? (Choose three)

A. Release and deployment management
B. Problem management
C. Incident management
D. Event management
E. Service-level management
F. Change management

Answer: BCD

NEW QUESTION 126
You are hired to assist an enterprise customer to design their global WAN network. A protected DWDM circuit with disjoint fiber routes and guaranteed restoration times is ordered to connect two hub sites. Which option is a BFD design consideration in relation to protected DWDM?

A. BFD failure detection must be faster than DWDM restoration time
B. The BFD hello timer must match the DWDM circuit restoration time
C. BFD failure detection must be longer than DWDM restoration time
D. BFD cannot be used with protected DWDM

Answer: C

NEW QUESTION 131
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 133
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

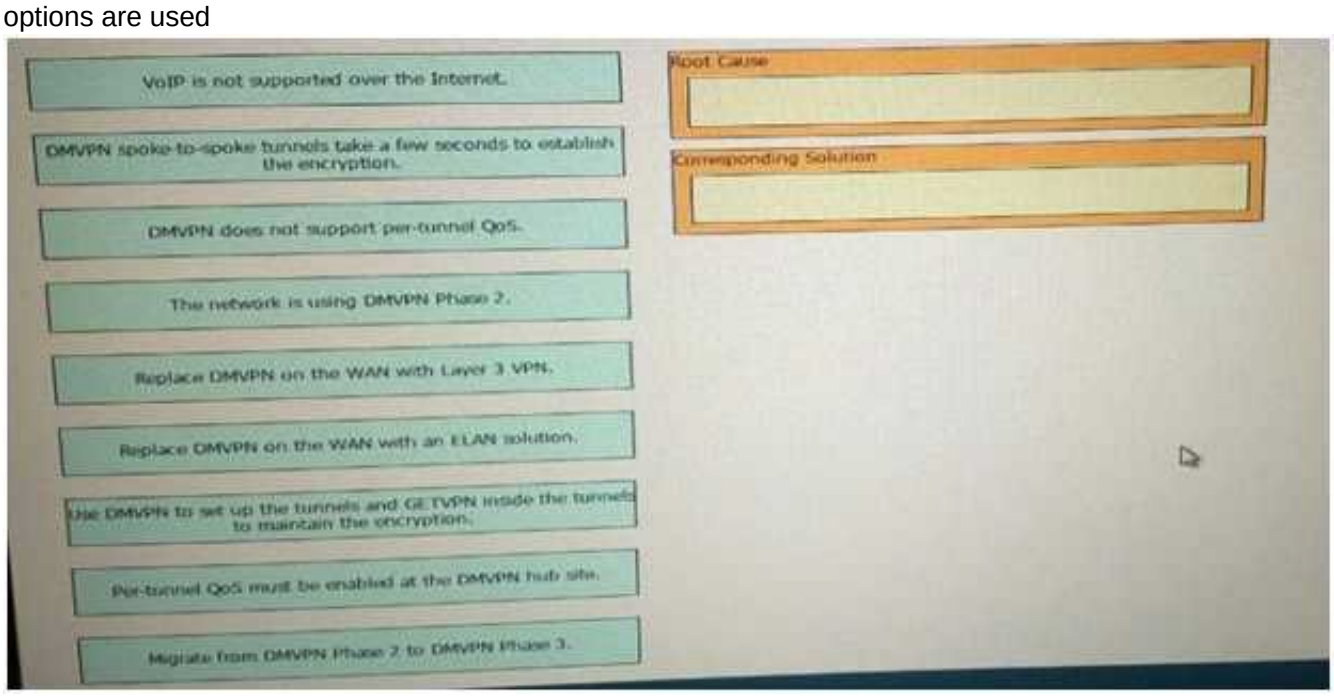
Answer: AE

NEW QUESTION 135
Which two options are IoT use cases that require the low-latency and high reliability that 5G networks provide? (Choose two)

A. Sports and Fitness
B. Smart Home
C. Automotive
D. Smart Cities
E. Industrial Automation
F. Health and wellness

Answer: CE

NEW QUESTION 137
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

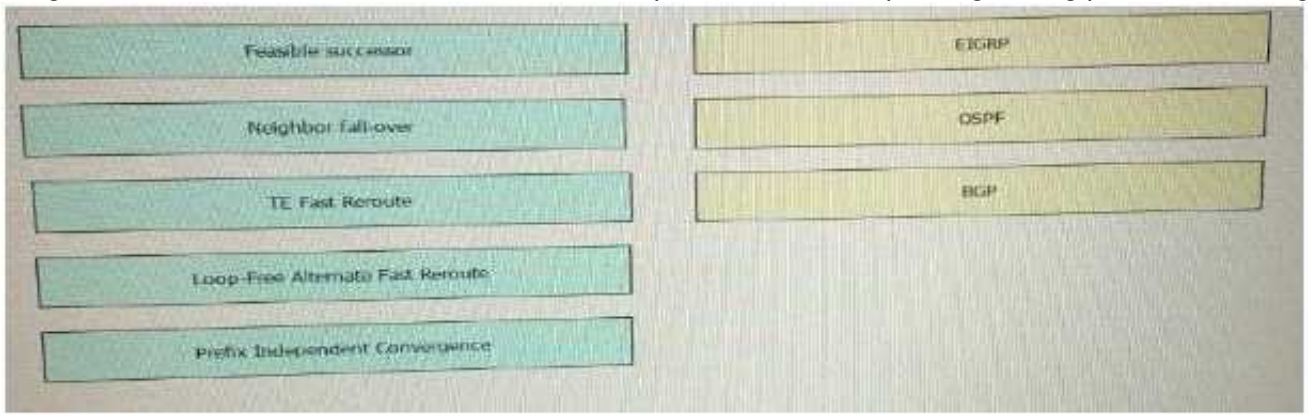


A. Mastered
B. Not Mastered

Answer: A

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

NEW QUESTION 138
DRAG DROP
Drag the fast Reroute mechanism on the left and drop it onto the corresponding routing protocol on the right



A. Mastered
B. Not Mastered

Answer: A

Explanation:
A, D, E

NEW QUESTION 140
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 142
A customer requests that you determine how much of their remote branch traffic into a central data center is related to a call manager that resides in the data center. Which solution do you recommend?

A. Enable NetFLow on branch routers
B. Enable netFlow on central data center routers
C. Perform SNMP polling of central data center routers
D. Perform SNMP polling of branch routers
E. Create an ACL on the local call manager switch with logging enabled
F. Span traffic from the switch port on the call manager to a data analyzer

Answer: B

NEW QUESTION 145
You are reviewing a new data center design for a customer. They chose to leverage a tunnel-based overlay technology for quick deployment and multitenant security. Which design concern can affect the availability across the data center?

A. Nonoverlapping IP address space between the overlay networks
B. MTU size on the underlay links
C. Review of comman paths on the underlay links
D. Paper placement of STP root bridge in overlay networks

Answer: B

NEW QUESTION 148
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 153
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 157
Your client is considering acquiring a new IPv6 address block so that all Ethernet interfaces on the network receive addresses based on their burned-in hardware addresses, with support for 600 VLANs. Which action do you recommend?

A. Acquire a new /60 IPv6 network and subnet it into /70 networks, one per VLAN
B. Acquire a new /58 IPv6 network and subnet it into /64 networks, one per VLAN
C. Acquire a new /60 Ipv6 network and subnet it into /68 networks, one per VLAN
D. Acquire a new/54 IPv6 network and subnet it into /64 networks , one per VLAN

Answer: D

NEW QUESTION 161
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 162
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 164
Which two options must be part of your network design to support dynamic mutual redistribution between multiple OSPFv2 and IS-IS boundaries, to avoid suboptimal routing? (Choose two)

A. Matching OSPF external routes
B. Route aggregation
C. Route tagging
D. Route filtering
E. Disabling IS-IS wide metrics

Answer: CD

NEW QUESTION 167
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 172
Which option reduces jitter in a VoIP network?

A. Deploy WRED
B. Deploy call Admission Control
C. Adjust the playout delay buffer at the receiver
D. Increase the bandwidth of the links

Answer: C

NEW QUESTION 173
Which three options are IS-IS design considerations when connecting two Layer 3 switches directly using a 10 GBASE-T cabling and formatting an IS-IS neighbor adjacency?

A. The default IS-IS network type is point-to-point so a DIS is not elected
B. A DIS is elected between the IS-IS neighbors and the elected DIS is pre-empted if router with a higher system ID is connected
C. The area, levels, and interface MTU parameters must match, and system MTU must be unique for two IS-IS routers to become adjacent
D. Faster IS-IS hello and dead timers increase bandwidth and CPU use, and may cause instability
E. The IS-IS hello and dead timers should be tuned to detect failures as quickly as possible
F. A DIS is elected between the IS-IS neighbors and the elected Dis is pre-empted if a router with a lower system ID is connected
G. The hello and dead timers must match for two IS-IS routers to become adjacent

Answer: CDF

NEW QUESTION 177
Which options do you investigate first when designing fast network convergence?

A. Routing protocol database size
B. MTU of the involved interfaces
C. Link speed between sites
D. Supported Layer 3 failure detection mechanism

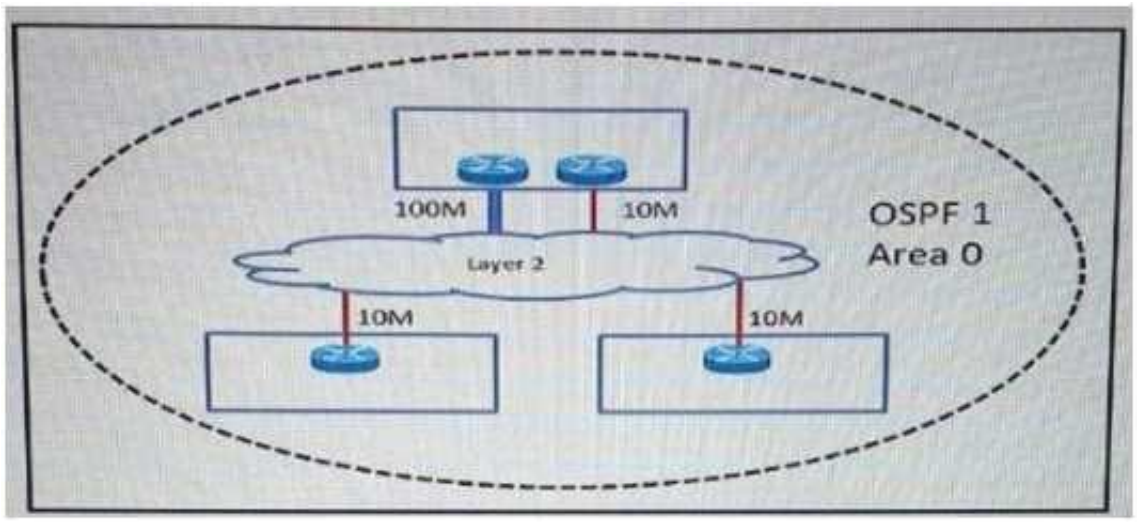
Answer: D

NEW QUESTION 180
Which main IoT migration aspect should be reviewed for a manufacturing plant?

A. Sensors
B. Security
C. Applications
D. Wi-Fi Infrastructure
E. Ethernet Switches

Answer: A

NEW QUESTION 185
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 190
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 194
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 VoIp, 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 195
Which open source message broker is in the Cisco Cloud Center?

A. Apache kafka
B. HornetQ
C. RabbitMQ
D. Fuse Message Broker
E. Oracle Message Broker

Answer: C

NEW QUESTION 198
Which two items are required for data plane hardening of an infrastructure device? (Choose two)

A. Disable unused services
B. Routing protocol authentication
C. SNMPv3
D. Redundant AAA servers
E. Infrastructure ACLs
F. Warning banners
G. Control Plane Policing

Answer: AE

NEW QUESTION 200
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 205
Which interconnectivity method offers the fastest convergence in the event of a unidirectional issue between three Layer 3 switches connected together with routed links in the same rack in a data center?

A. Fiber Ethernet connectivity with UDLD enabled
B. Copper Ethernet connectivity with BFD enabled
C. Fiber Ethernet connectivity with BFD enabled
D. Copper Ethernet connectivity with UDLD enabled

Answer: C

NEW QUESTION 208
Which two control plane policer design options should you consider to achieve high availability?
(Choose two)

A. Control plane policers require that adequate protocols overhead are factored in to allow protocol convergence
B. Control plane policers are really needed only on externally facing devices
C. Control plane policers can cause the network management systems to create false alarms
D. Control plane policers are enforced in hardware to protect the software path, but they are hardware platform-dependent in terms of classification ability
E. Control plane policers must be processes before a forwarding decision is made

Answer: DE

NEW QUESTION 213
Which four resources does Cisco Cloud Center provision in an ACL environment? (Choose four)

A. VLAN Pool
B. Contracts
C. End point Group (EPG)
D. VRF
E. Subject/Filters
F. Application Network Profile (ANP)

Answer: BCEF

NEW QUESTION 218
Your customer asked you to redesign there is-IS network to reduce to a minimum the number of adjacencies because the network has several routers running L1/L2 mode on the sme Ethernet segment. Which action do you recommend?

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

Answer: D

NEW QUESTION 220
Which MPLS attribute is required for links to carry a given MPLSTE tunnel?

A. TE tunnel destination address
B. Tunnel path-selection metric
C. Affinity
D. Next-hop backup tunnel

Answer: A

NEW QUESTION 223
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 228
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 230
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 231
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 232
How can EIGRP topologies be designed to converge as fast as possible in the event of a point-to-point link failure?

A. Build neighbor adjacencies in a triangulated fashion
B. Build neighbor adjacencies in a squared fashion
C. Limit the query domain by use of distribute lists
D. Limit the query domain b use of summarization
E. Limit the query domain by use of default routes

Answer: D

NEW QUESTION 233
A new video multicast application is deployed in the network. The application team wants to use the
239.0.0.1 multicast group to stream the video to users. They want to know if this choice will impact the existing multicast design. What impact will their choice have on the existing multicast design?

A. Because 239.0.0.1 is a private multicast range, a flood of PIM packets that have to be processed by the CPU and hosts will be sent by the routers in the network.
B. Because 239.0.0.1 is a private multicast range, the rendezvous point has to send out constant group updates that will have to be processed by the CPU and hosts.
C. The multicast application sends too many packets into the network and the network infrastructure drops packets.
D. The 239.0.0.1 group address maps to a system MAC address, and all multicast traffic will have to be sent to the CPU and flooded out all ports.

Answer: B

NEW QUESTION 234
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 238
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 241
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 243
Which three different behaviors must a network designer expect when bidirectional PIM is used
instead of PIM Sparse Mode? (Choose three)

A. The source IP addresses from the multicast senders cannot be seen in the multicast routing table
B. The RPF check does not prevent routing loops when bidirectional PIM is used
C. Many possible rendezvous point can be used for bidirectional PIM as compared to PIM Sparse Mode
D. PIMv2 BSR is not supported with bidirectional PIM
E. The join messages to join a bidirectional PIM multicast group are different compared to PIM-SM
F. No rendezvous point is required when bidirectional PIM is used
G. Auto-RP is not supported with bidirectional PIM

Answer: ADE

NEW QUESTION 246
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 250
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 255
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 260
In a VPLS design solution, which situation indicates that BGP must be used instead of LDP in the

control plane?

A. MAC address learning scales better through BGP
B. BGP supports VPLS interworking
C. Pseudowire configuration overhead is reduced
D. There are no full-mesh pseudowire due to the route reflection feature of BGP

Answer: A

NEW QUESTION 263
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 265
When a multiprotocol routing environment is designed to have several routers redistributing among the routing domains, how can routing loops be avoided?

A. By implementing spanning tree
B. By activating split horizon
C. By using the AS-path attribute
D. By using route tags

Answer: D

NEW QUESTION 270
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 274
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 279
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 281
A network engineering team is in the process of designing a lab network for a customer demonstration. The design engineer wants to show that the resiliency of the MPLS traffic Engineering Fast Reroute solution has the same failover/failback times as a traditional SONET/SDH network (around 50MSEC). In order to address both link failure and node failure within the lab typology network, which type of the MPLS TE tunnels must be considered for this demonstration?

A. TE backup tunnel
B. Next-hop (NHop) tunnel
C. FRR Backup tunnel
D. next-next-hop (NNHop) tunnel

Answer: D

NEW QUESTION 284
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 286
A large enterprise network has a partial mesh network with multiples redundant links. OSPF is used
as IGP and it is implemented in a single-area. The network has slow convergence times and there is a high CPU utilization on the routers. Which solution can address these issues while ensuring that the network scales?

A. Break the routing domain into separate OSPF areas
B. Make it a hub-and-spoke topology
C. Replace OSPF with BGP
D. Reduce the number of links between routers in the network
E. Upgrade the routers with higher CPU and memory resources

Answer: A

NEW QUESTION 288
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 292
Which two conditions are required for successful route aggregation? (Choose two)

A. Contiguous prefix allocation
B. Logical separation between zones or layers within networks
C. Matching traffic aggregation with route aggregation locations
D. Consistent prefix allocations per network
E. Physical separation between zones or layers within networks

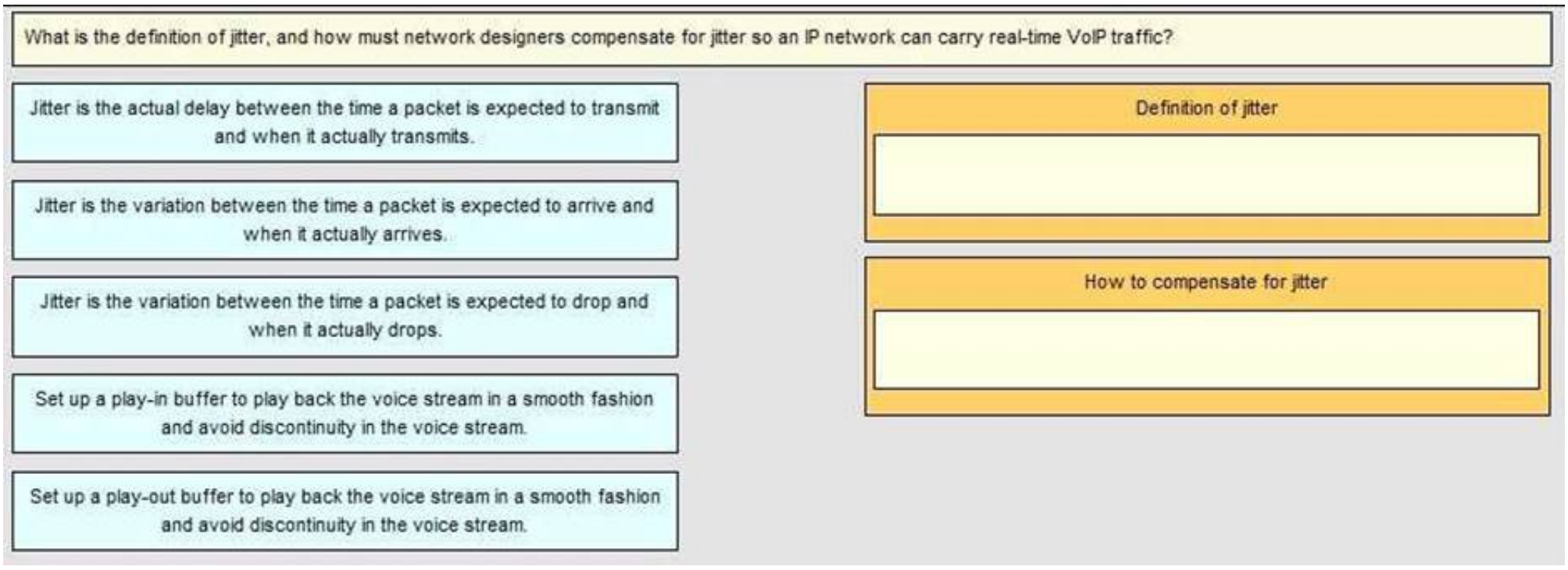
Answer: BD

NEW QUESTION 293
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 remaking 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

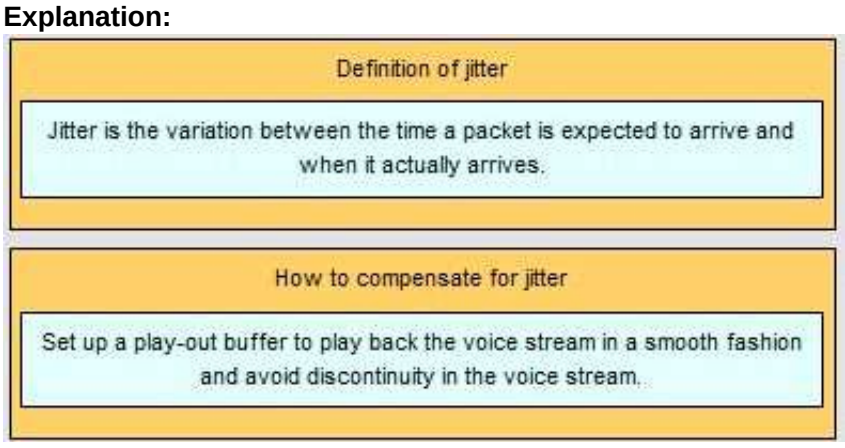
NEW QUESTION 294
DRAG DROP



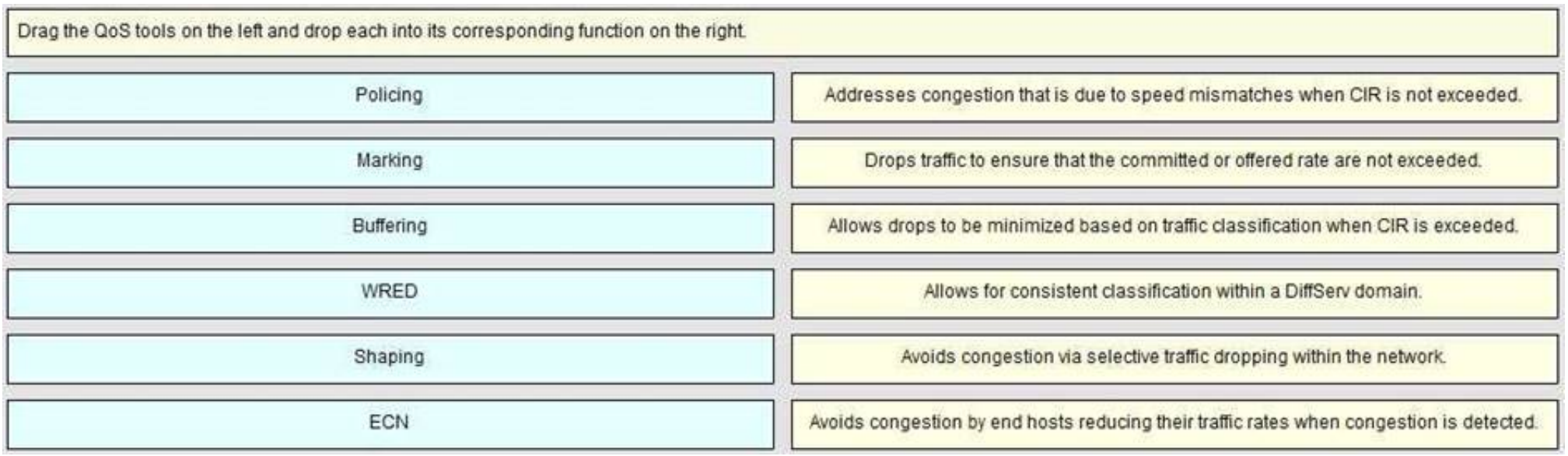
A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 298
DRAG DROP



A. Mastered
B. Not Mastered

Answer: A

Explanation:

Buffering

Policing

Shaping

Marking

WRED

ECN

NEW QUESTION 300
DRAG DROP

Drag the design requirements on the left to the appropriate tool and protocols on the right. Not all tools and protocols will be used.

chargeback billing	NetFlow
event collection and correlation	IP SLA
IP applications quality assurance	SNMP
average link utilization monitoring	Syslog
VoIP call quality monitoring	

A. Mastered
B. Not Mastered

Answer: A

Explanation:

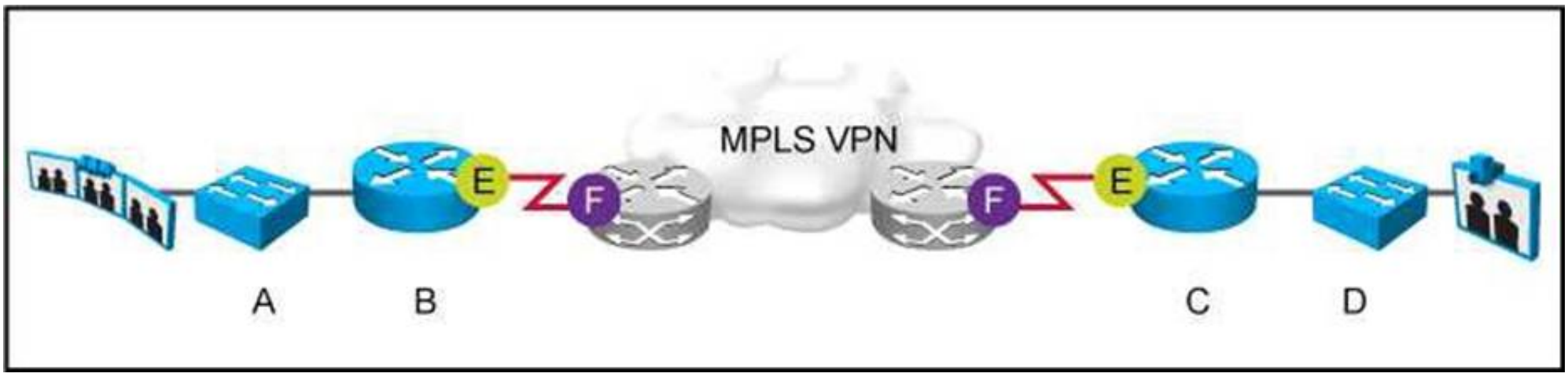
chargeback billing

IP applications quality assurance

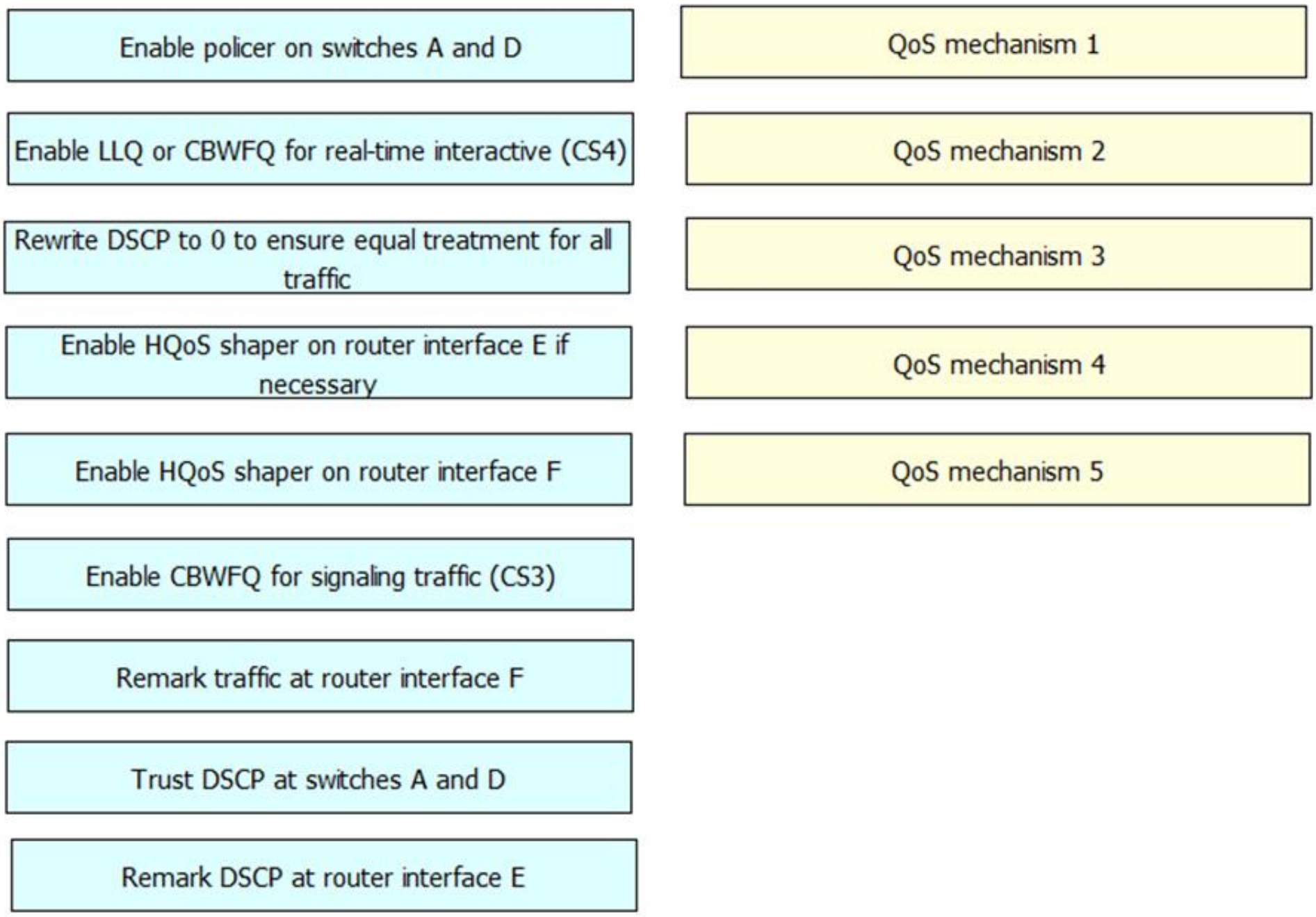
average link utilization monitoring

event collection and correlation

NEW QUESTION 303
DRAG DROP
Refer to the exhibit.



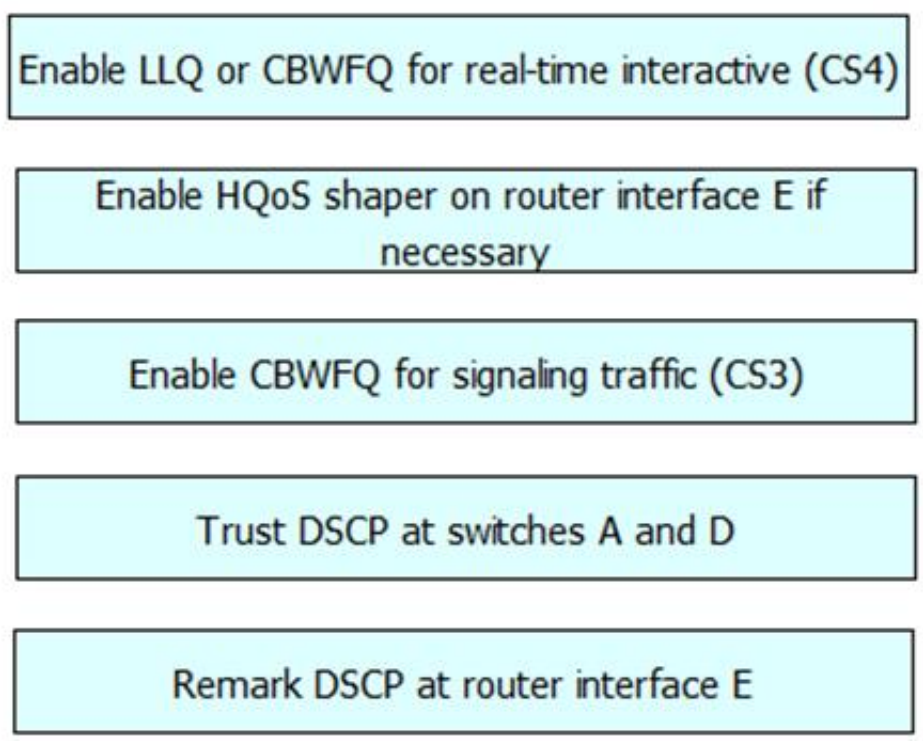
Company ACME is adding a Cisco TelePresence system for real-time collaboration and wants to ensure the highest user experience. Drag and drop the necessary QoS mechanisms from the left to the right in any order. Not all options will be used.



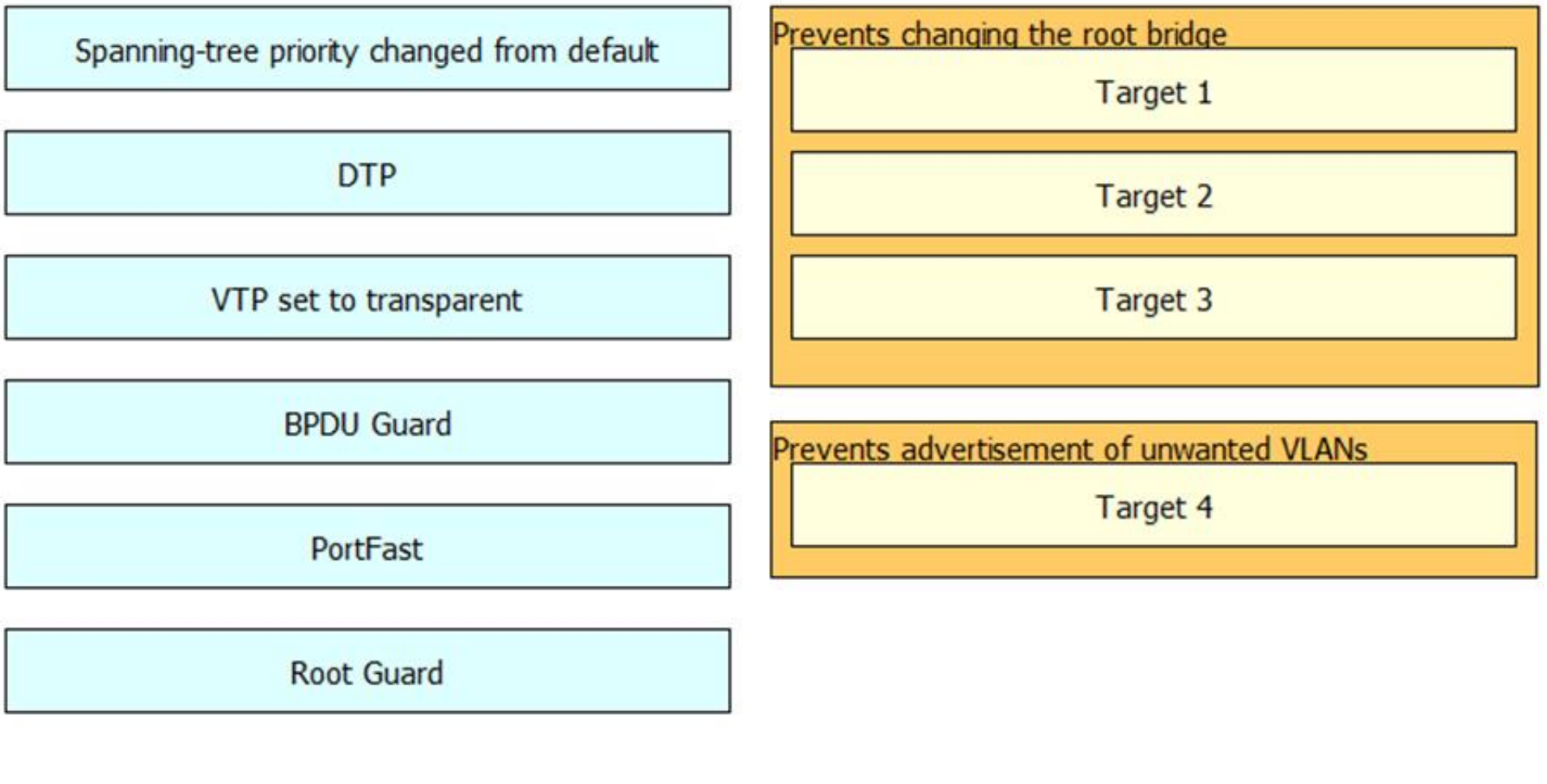
A. Mastered
B. Not Mastered

Answer: A

Explanation:



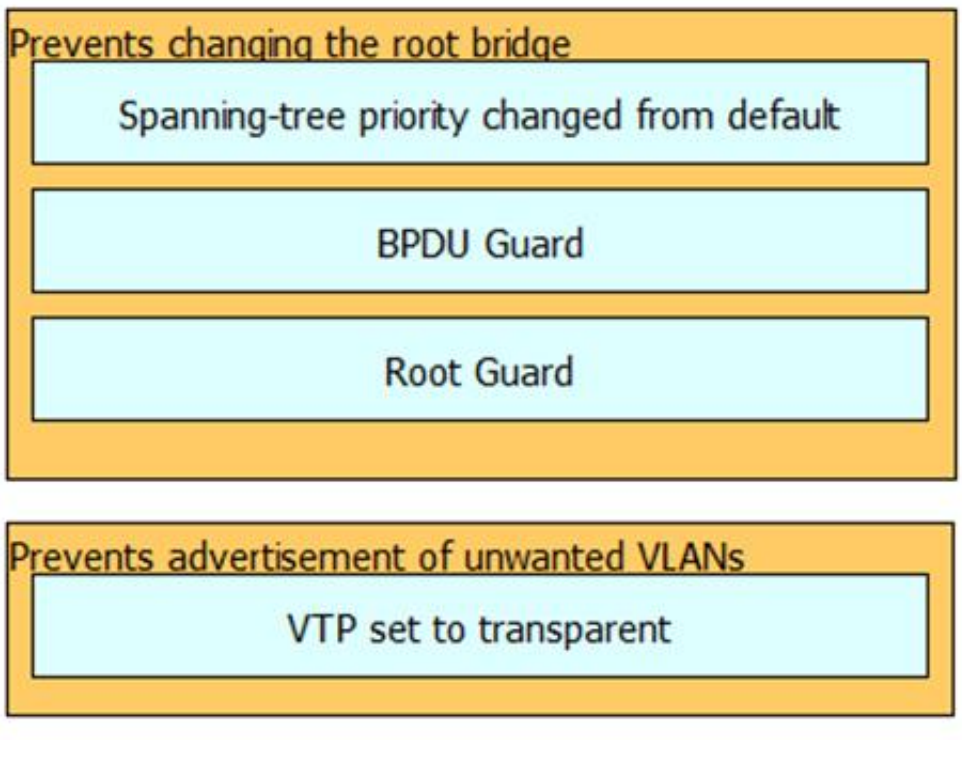
NEW QUESTION 307
DRAG DROP
A small local business recently had an outage after an employee plugged a switch into the corporate network, which caused the traffic pattern in the network to change. You have been tasked to redesign the network so that this does not happen again. From the left side to the right side, drag the PVRST+ features that should be implemented to prevent the corresponding root cause. Not all sources will be used.



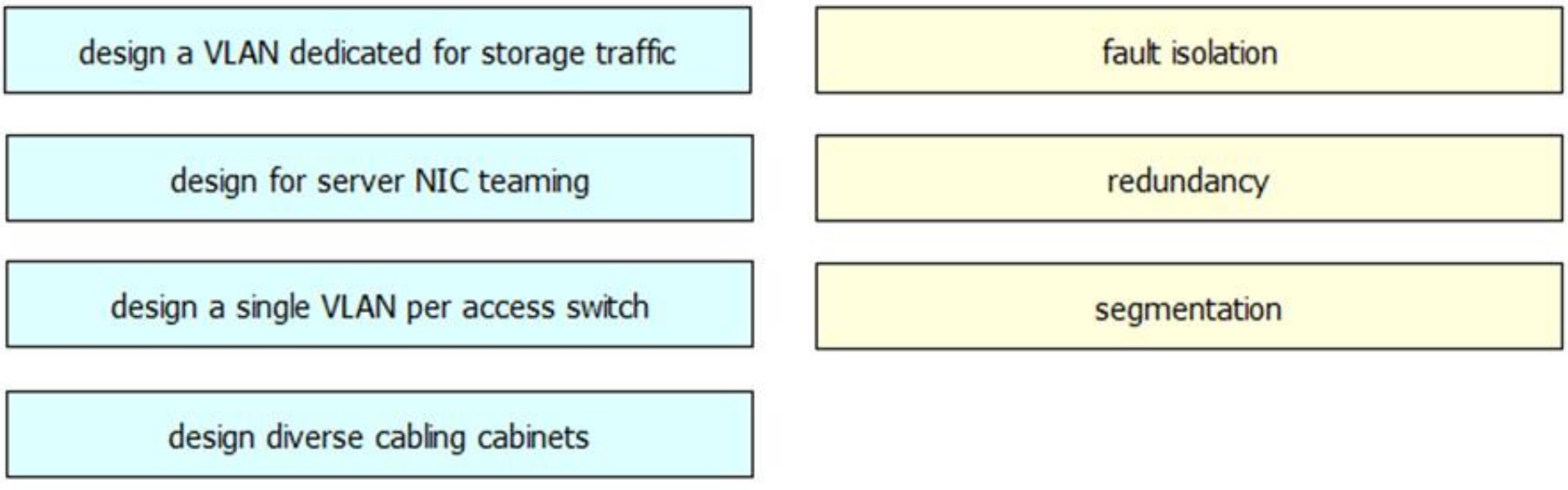
A. Mastered
B. Not Mastered

Answer: A

Explanation:



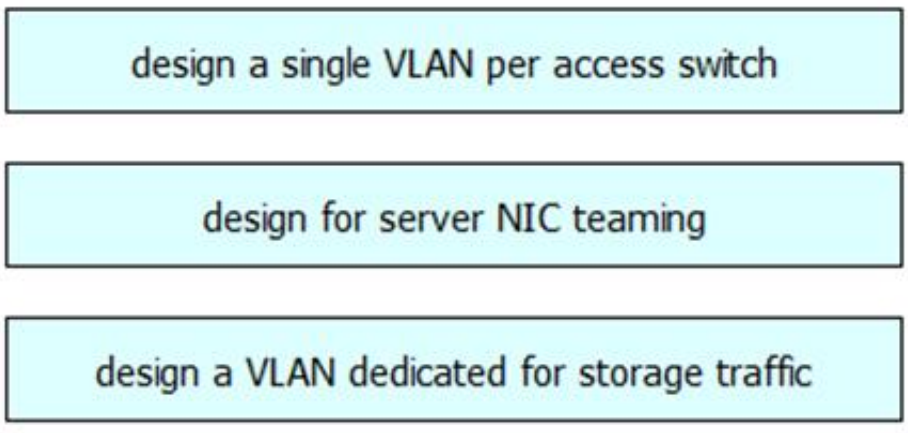
NEW QUESTION 310
DRAG DROP
You are designing a new data center network. Drag and drop new data center requirements on the left into the appropriate design principle on the right.



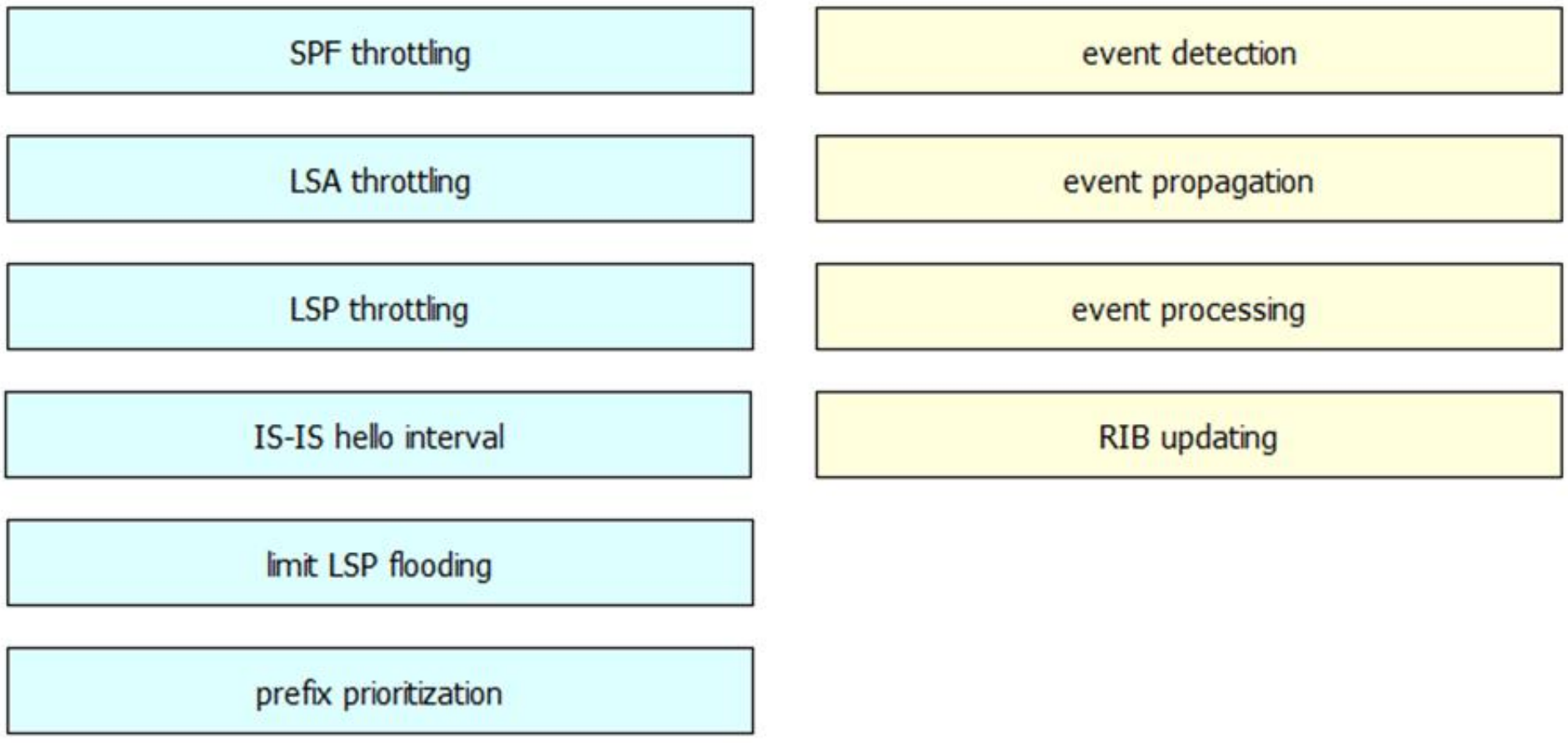
A. Mastered
B. Not Mastered

Answer: A

Explanation:



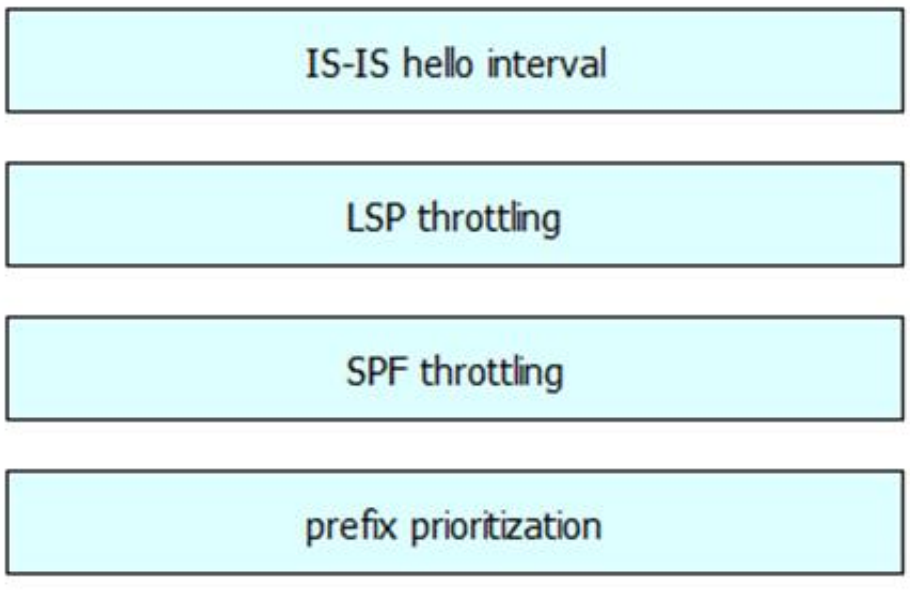
NEW QUESTION 311
DRAG DROP
As a network designer for a major multiservice network, your first assignment is to improve the IS-IS convergence to meet application requirements. Drag and drop the convergence tools or techniques to be used on your proposal from the left into the corresponding convergence phase on the right.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 315
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