Cisco

Exam Questions 352-001

CCDE Written Exam

NEW QUESTION 1
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 2
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 3
A service provider wants to use a controller to automate the provisioning of service function chaining. Which two overlay technologies can be used with EVPN MP-BGP to create the service chains in the data center?

A. VXLAN
B. MPLS L2VPN
C. Provider Backbone Bridging EVPN
D. 802.1Q

Answer: A

NEW QUESTION 4
Company ABC is using an Ethernet virtual circuit as its provider's DCI solution. A goal is to reduce the time to detect the link failure. Which protocol accomplishes this goal?

A. UDLD
B. Spanning tree bridge assurance
C. Link aggregation group
D. Ethernet OAM

Answer: D

NEW QUESTION 5
What is an implication of using route reflectors in an iBGP topology?

A. Route reflection limits the total number of iBGP routers.
B. Route reflection causes traffic to flow in a hub-and-spoke fashion.
C. The manipulation of BGP attributes is not supported on the other routers than the route reflectors.
D. Route reflectors can create routing loops when more than one router reflector is used in the same cluster.
E. Multipath information is difficult to propagate in a route reflector topology.

Answer: E

NEW QUESTION 6
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

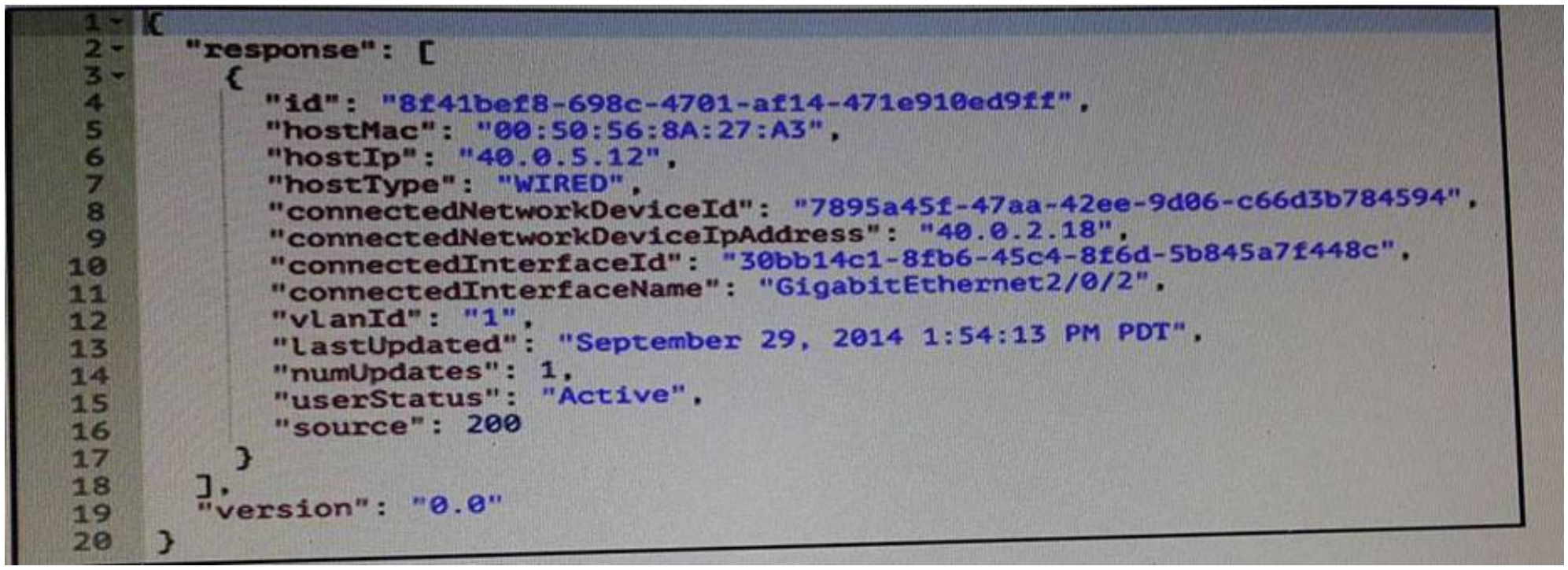
NEW QUESTION 7
You have been asked to design a wireless network solution that will implement context-aware services on an existing network that was initially deployed for data traffic only. Which two design principles would you follow to increase the location accuracy with the least possible impact on the current setup? (Choose two.)

A. Use directional antennas to provide better cell separation.
B. Add access points along the perimeter of the coverage area.

C. Install additional APs in monitor mode where the co-channel interference would otherwise be affected.
D. Increase the AP density to create an average inter-access point distance of less than 40 ft.| 12.2meters
E. Fine tune the access point's radio configuration to have a higher average transmission power to achieve better coverage.

Answer: AD

NEW QUESTION 8
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 9
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 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

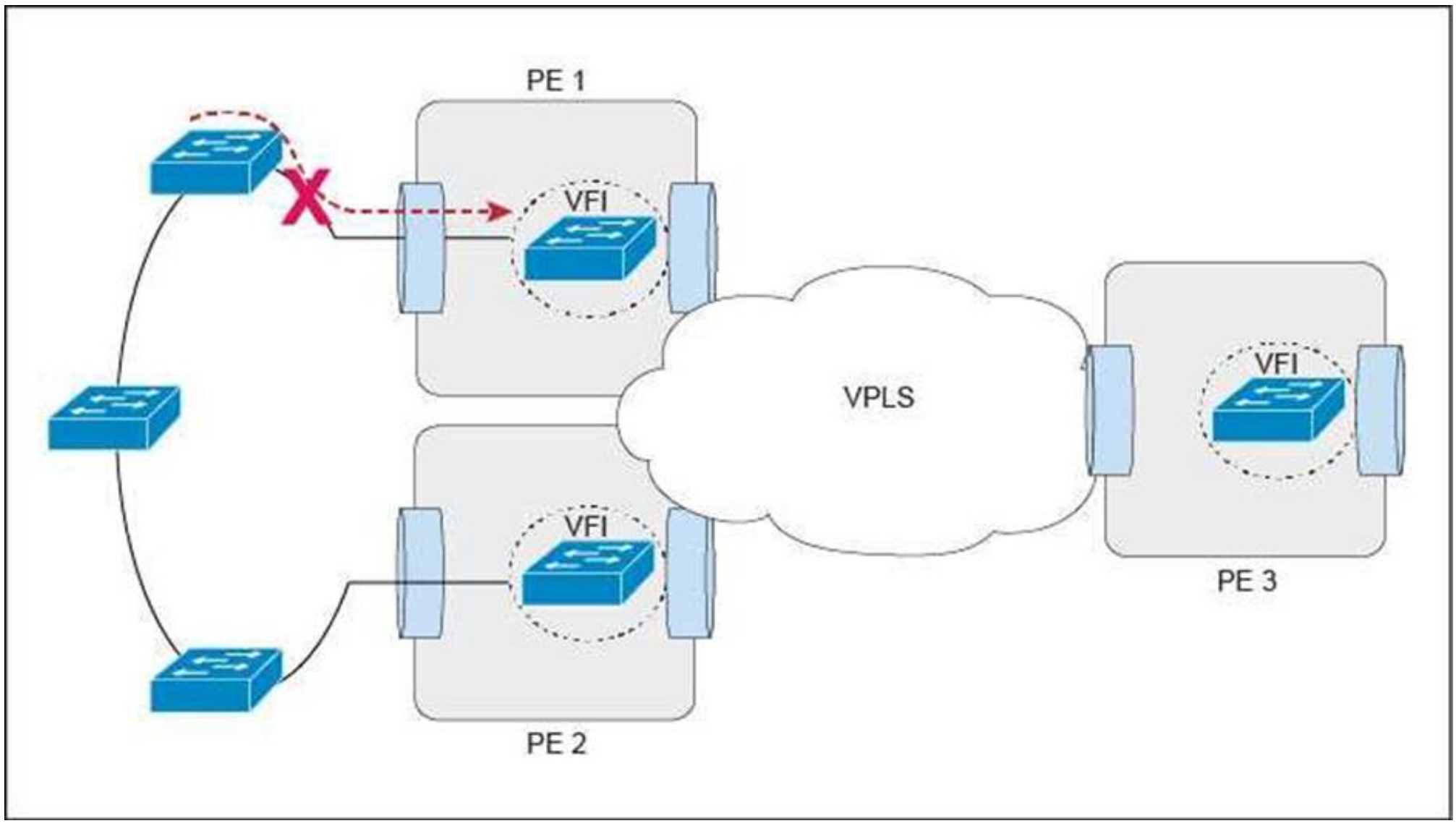
Answer: C

NEW QUESTION 10
Which reason prevents a designer from using a GDOI-based VPN to secure traffic that traverses the Internet?

A. Enterprise host IP addresses are typically not routable.
B. GDOI is less secure than traditional IPsec.
C. Network address translation functions interfere with tunnel header preservation.
D. The use of public addresses is not supported with GDOI.

Answer: C

NEW QUESTION 13
Refer to the exhibit.

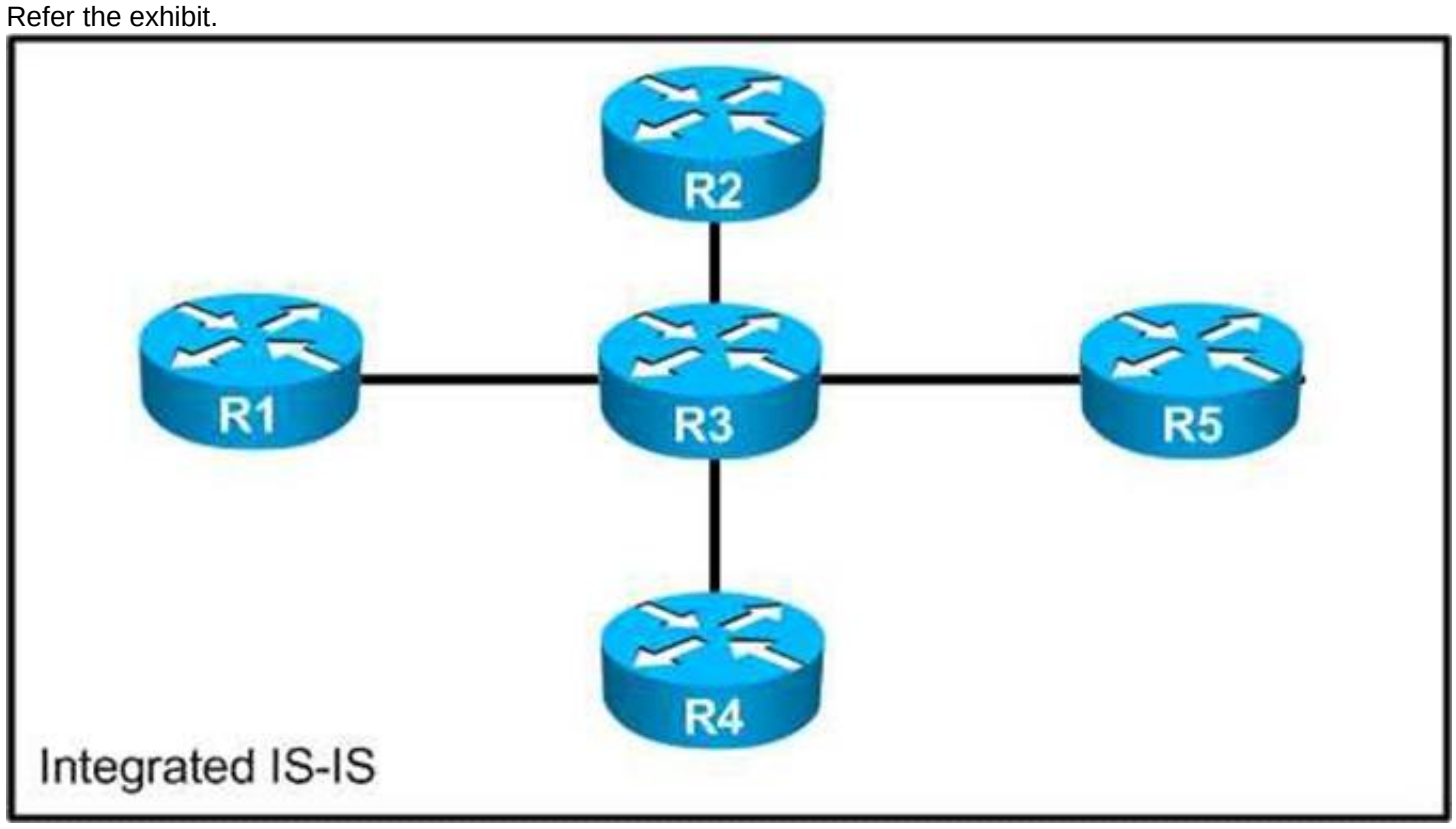


This Layer 2 ring has 10 VLANs with 1000 MAC addresses in each VLAN. Which protocol or mechanism provides the shortest traffic outage if the link marked with "X" fails?

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

Answer: D

NEW QUESTION 15
Refer the exhibit.



You have designed a IPv6 migration plan, and now you need to determine the impact on the existing IPv4 network. Which is likely to happen when you enable IPv6 routing on the link between R3 and R2, starting at R3?

A. R3 advertises the link from R3-R2 to R1, R4 and R5 only.
B. R2 receives an IPv6 default route from R3.
C. Only R3 and R2 have IPv4 and IPv6 reachability.
D. Loopback reachability between all routers for IPv4 is lost.
E. All routers except R2 are reachable through IPv4.

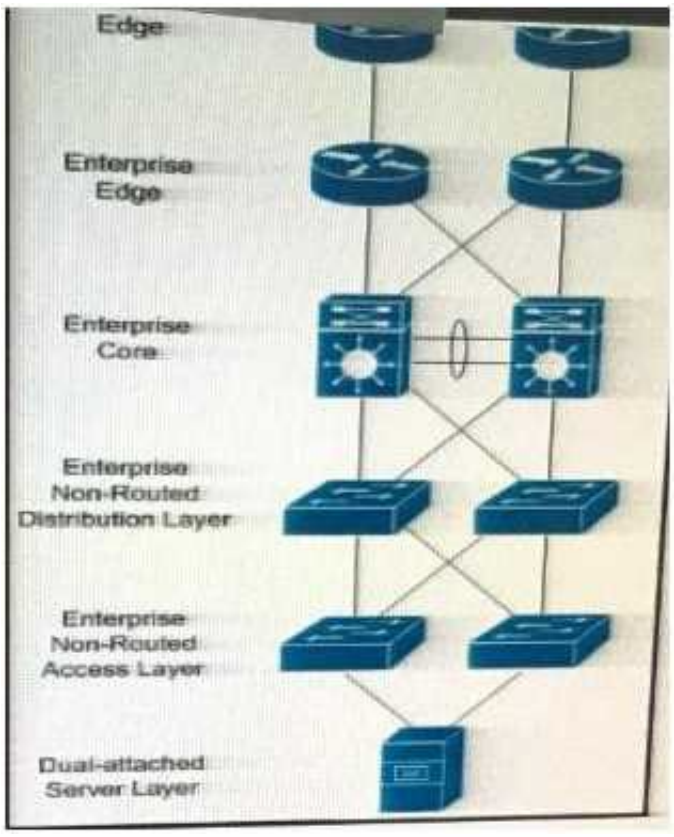
Answer: D

NEW QUESTION 19
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 24
Refer to the Exhibit.



In which three Layers should you use nonstop Forwarding to reduce service impact in case of failure? (Choose three)

A. Enterprise Edge
B. Enterprise Core
C. Service provider Edge
D. Dual-attached sever Layer
E. Enterprise Non-Routed Access Layer
F. Enterprise Non-Routed Distribution Layer.

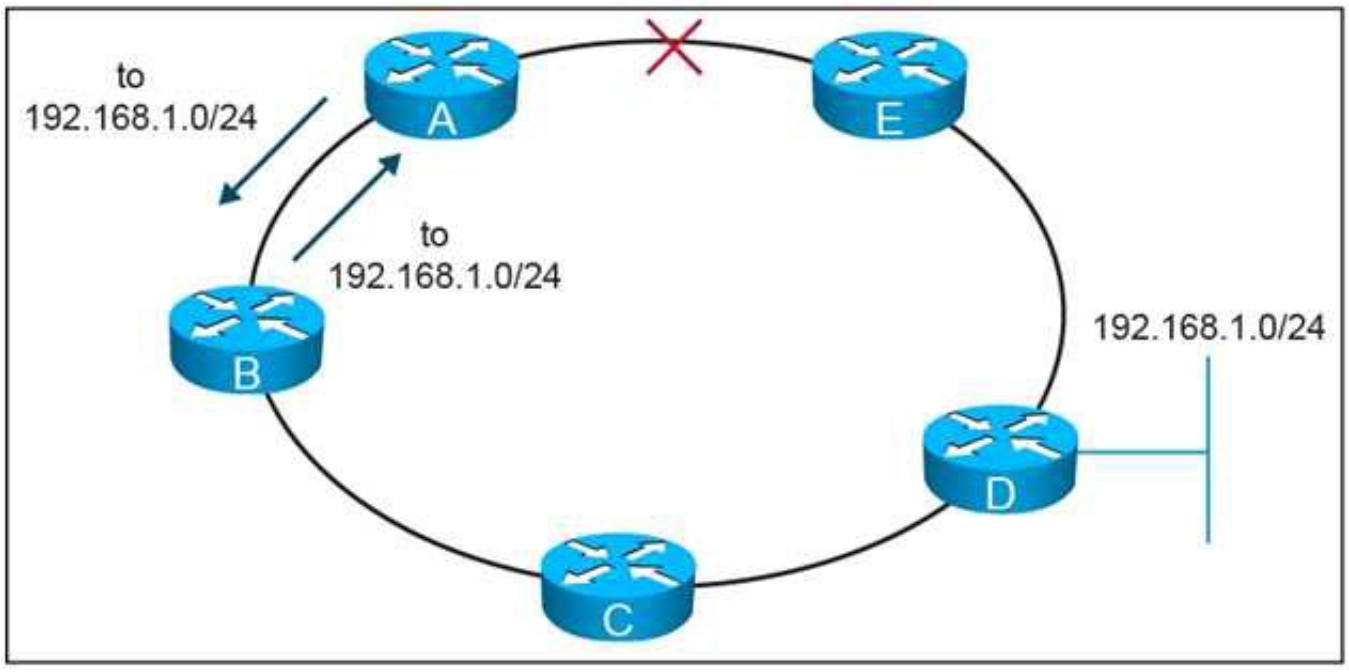
Answer: ABC

NEW QUESTION 28
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 29
Refer to the exhibit.



On this MPLS-based network ring, links have failed between router A and router E. These failures formed microloops while the network converged, when A forwarded traffic to B but B forwards it back to

A. Which technology is the simplest solution to avoid microloops without enabling a new protocol in the network?
B. TE Fast ReRoute
C. IP Fast ReRoute
D. Loop-Free Alternate
E. Remote Loop-Free Alternate

Answer: D

NEW QUESTION 32
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 34
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 36
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 37
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 38
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 39
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.

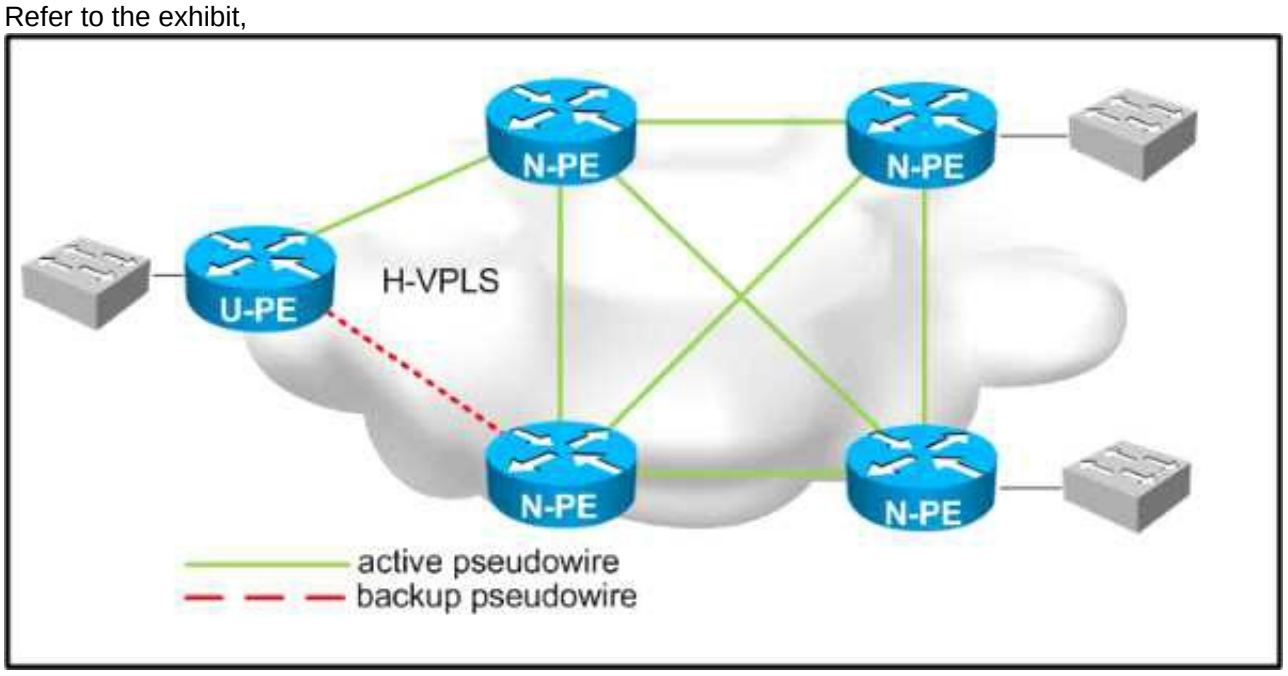
Answer: B

NEW QUESTION 43
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 46
Refer to the exhibit,



Which two design considerations should be implemented on the pseudowire between N-PE and U-PE routers for a loop-free hierarchical VPLS service? (Choose two)

A. Disable split horizon towards the U-PE router.
B. Disable MAC learning on the U-PE router.
C. Enable split horizon towards the N-PE routers.
D. Disable MAC learning on the U-PE routers.
E. Disable MAC learning on the U-PE routers.
F. Enable split horizon towards the U-PE routers.
G. Disable split horizon toward the N-PE routers.

Answer: AC

NEW QUESTION 49
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 50
Your customer asks you to assist with their traffic policy design. They want to guarantee a minimum
amount of bandwidth to certain traffic classes. Which technique would you advise them to implement?

A. Modular QoS CLI
B. committed access Rate
C. policy-based routing
D. traffic shaping

Answer: A

NEW QUESTION 55
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 60
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 63
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 66
What is a correct design consideration of IPv6 MLD snooping?

A. MLD snooping conserves bandwidth on switches.
B. MLD snooping is used to filter all MLD queries.
C. MLD snooping requires IGMP snooping to be implemented.
D. MLD snooping conserves CPU by sharing IPv4 and IPv6 multicast topology.

Answer: A

NEW QUESTION 71
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 72
You are solving a design failure on a massive Hadoop cluster network that has an application with TCP incast behavior (also known as TCP Throughput collapse) affecting its many-to-one communications with packet loss at the last-hop network device. Which metric must be measured to ensure that the network provides the best performance for this application?

A. Availability
B. Bandwidth utilization
C. Jitter values
D. Buffer utilization

Answer: D

NEW QUESTION 74
Which two are IoT sensor-specific constraints? (Choose two)

A. Memory
B. Processing power
C. The amount of devices
D. Cooling
E. Standard transport protocols

Answer: CE

NEW QUESTION 75
ACME Agricultural requires that access to all network devices is granted based on identify validation, and an authentication server was installed for this purpose. Currently the network team uses a list of passwords based on regions to access the internal corporate network devices. Which protocol do you recommend to ensure identify validation from the authentication server to the corporate directory?

A. HTTPS
B. TACACS+
C. SSH
D. LDAP

Answer: D

NEW QUESTION 80
A large enterprise network has two data centers and a WLAN edge with a large hub-and spoke
network. The complete network is configured as a single OSPF area, and spoke routers are connected to unreliable WAN links. Which two changes should you make to deploy LSA on the spoke routers? (Choose two)

A. Place spoke routers in stub areas
B. Make the hub routers ABR
C. Make the hub routers ASBR
D. Place spoke routers in totally stubby areas
E. Keep the spoke routers in normal areas

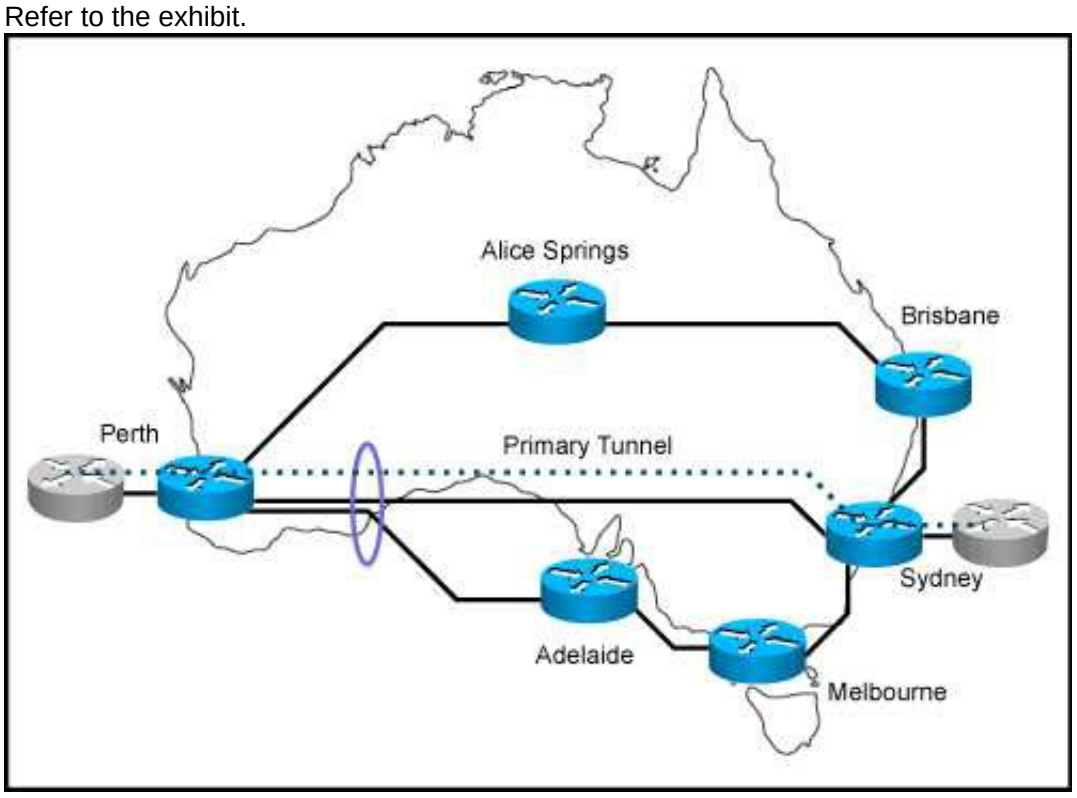
Answer: BD

NEW QUESTION 84
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.

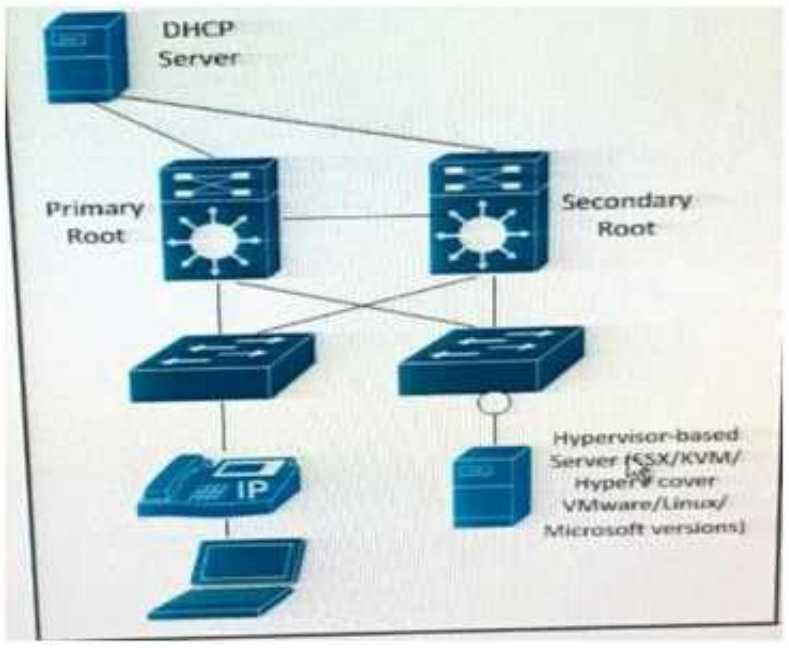


You are designing MPLS-TE for this network. The links form Perth to Sydney and from Perth to Adelaide share the same optical fiber in one given segment. Which feature should you implement to eliminate the risk that a backup tunnel is installed over the same optical fiber as the primary one?

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 89
Refer to the Exhibit.

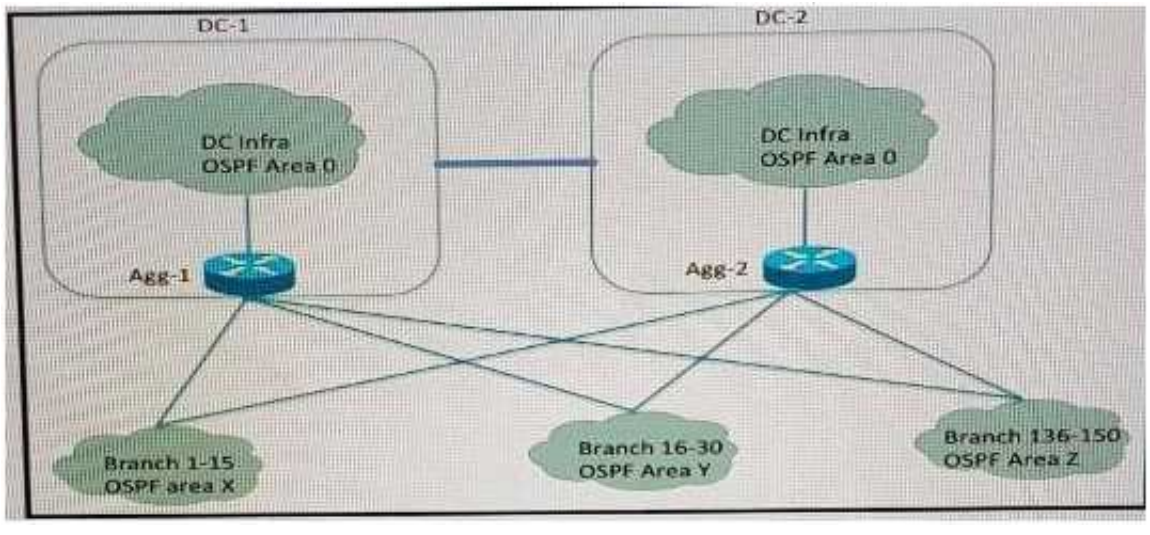


The server is running multiple VLANs on its NIC. Which two Layer 2 features should be applied to the network location identified by a circle? (Choose two)

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

Answer: BF

NEW QUESTION 91
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 92
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 94
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 98
You are designing an IPv4 any source multicast redundancy solution. Which technology ensures the quickest RP convergence?

A. Bootstrap router
B. MSDP anycast RP
C. Auto-RP
D. Embedded RP

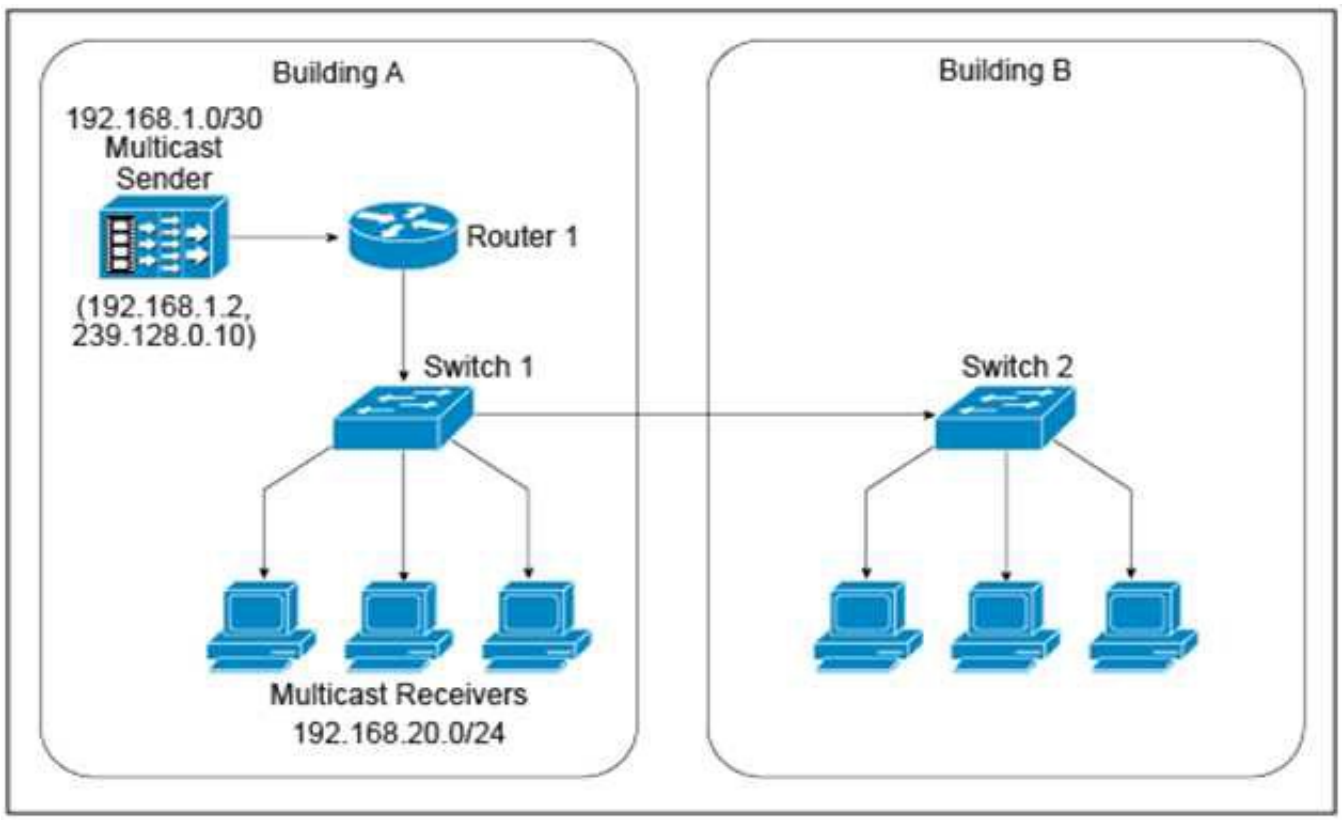
Answer: B

NEW QUESTION 99
You are designing a new multisite data center network within the same city. You are using the newest routers that run OSPF and DWDM point-to-point interfaces for site-to-site connectivity. Your primary objective is to use the fastest possible method for interface failure detection. Which method achieves this objective?

A. UDLD
B. Interface event dampening
C. LoS/AIS event faults
D. Fast-hello timers

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 102
Which three network management requirements are common practices in network design? (Choose three)

A. Ensure that all network devices have their clocks synchronized.
B. Collect SNMP poll information for future regression analysis.
C. Capture both ingress and egress flow-based packets, while avoiding duplication of flows.
D. Look at average counters instead of instantaneous counters for inconsistent and bursty KPIs, such as CPU utilization and interface utilization.
E. Validate data plane health, and application and services availability, with synthetic traffic.

Answer: ABD

NEW QUESTION 105
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 106
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 107
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 110
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

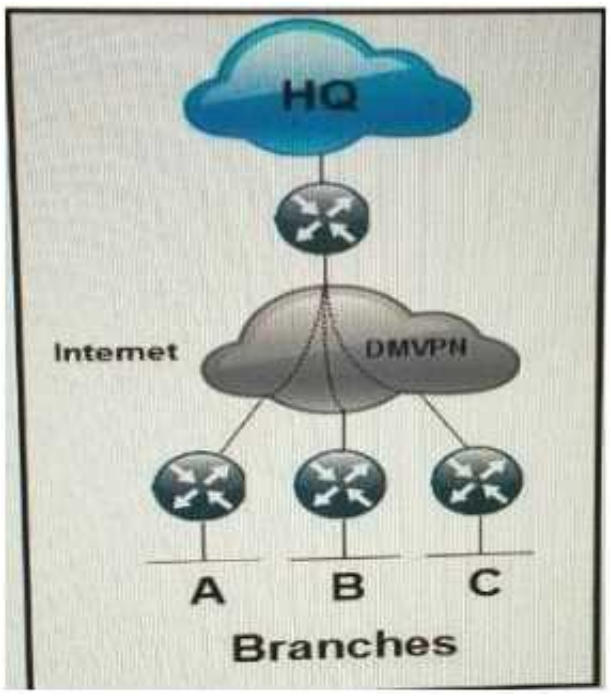
Answer: A

NEW QUESTION 113
You are asked to design an RSVP-TEL LSP protection solution for a large service provider network
.Which traffic protection mechanism is highly scalable and ensure that multiple LPS always terminate at the same merge point?

A. Shared explicit protection.
B. Detour LSPs.
C. 1:N protection.
D. 1:1 protection.

Answer: C

NEW QUESTION 117
Refer to the exhibit.



Which routing solution is the most scalable to connect the branches to the HQ and to connect the branches together over the internet using DMVPN?

A. EIGRP
B. EIGRP with the branch routers setup as stubs
C. OSPF with each branch router as an ABR
D. IS-IS L2 in all locations
E. OSPF Area 0 in all locations

Answer: B

NEW QUESTION 122
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 124
A network is designed to use OSPF to reach eBGP peers. For eBGP peers to stay stable in case of a link failure, what condition should be avoided?

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

Answer: D

NEW QUESTION 129
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 133
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 135

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

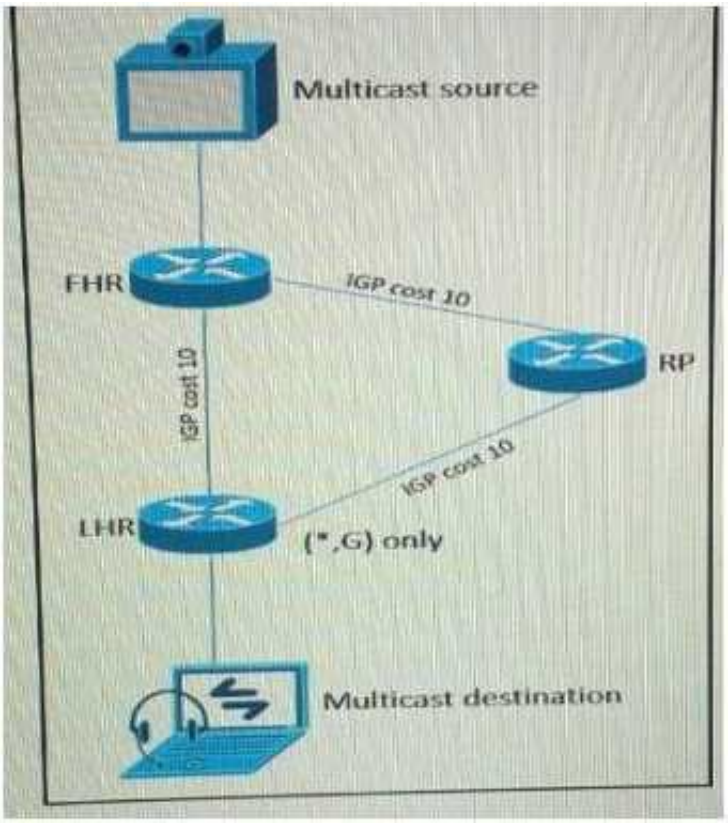
Answer: CE

NEW QUESTION 136
Across a large WAN network, there will be new video traffic being distributed from a single source at any given time however, the video source might originate from different parts of the multicast domain at different times . Which multicast technology provides for this multicast traffic to be distributed with optimal path selection to the source?

A. Any source Multicast.
B. PIM sparse mode.
C. Bidirectional PIM.
D. Source Specific Multicast.

Answer: D

NEW QUESTION 139
Refer to the exhibit.

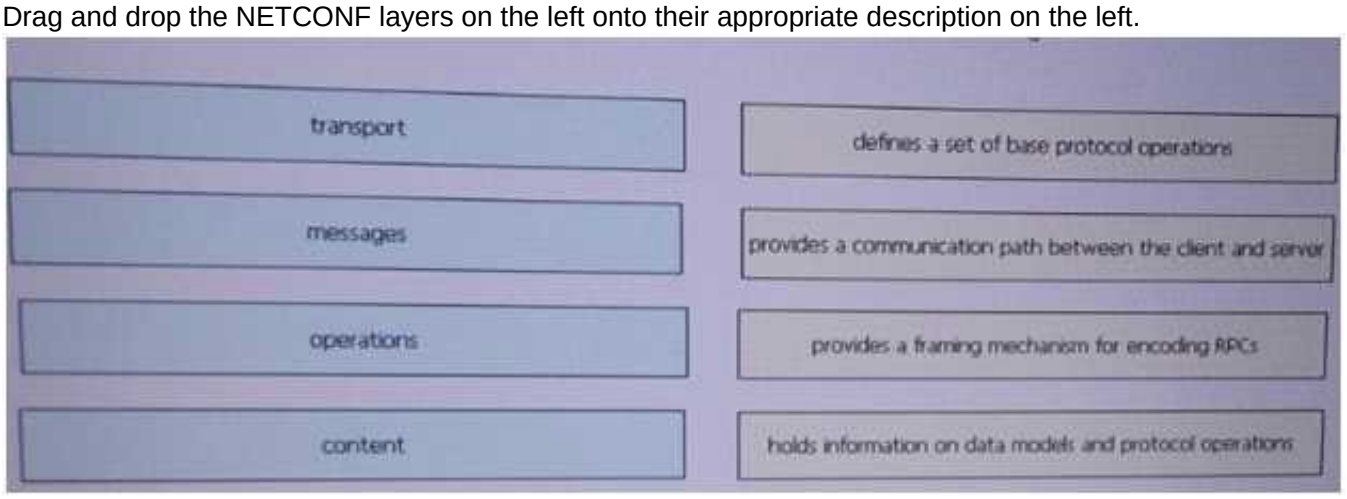


As part of a redesign project, you must predict multicast behavior. What is the resultant multicast traffic receiving on the shared tree(, G), if it is received on the LHR interface indicated?

A. It is dropped due to an unsuccessful RPF check against the multicast receiver
B. It is switched due to a successful RPF check against the routing table
C. It is switched given that no RPF check is performed
D. It is dropped due to an unsuccessful RPF check against the multicast source

Answer: B

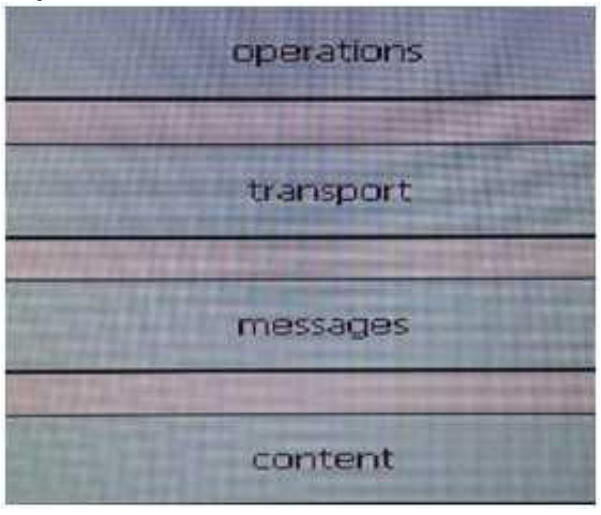
NEW QUESTION 142
DRAG DROP
Drag and drop the NETCONF layers on the left onto their appropriate description on the left.



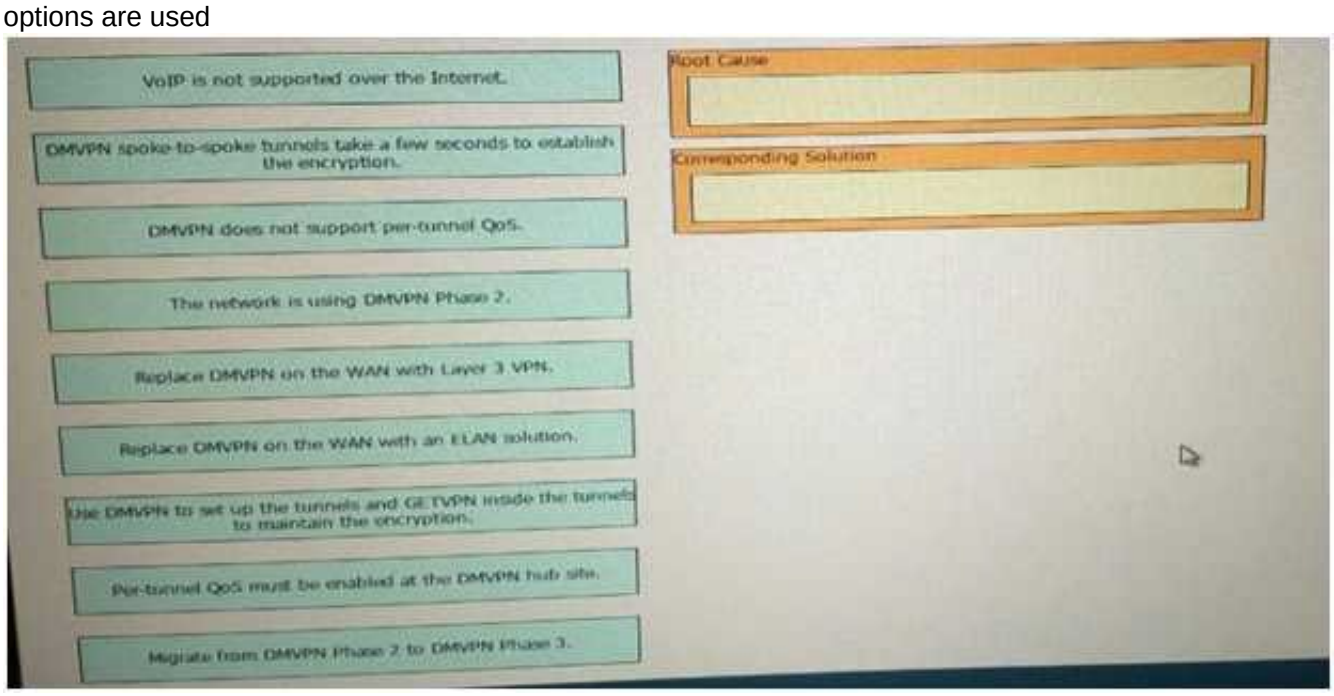
A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 147
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 148
As a part of a network design, you should tighten security to prevent man-in-the-middle. Which two security options ensure that authorized ARP responses take place according to know IP-to-MAC address mapping? (Choose two)

A. DHCP snooping
B. ARP spoofing
C. ARP rate limiting
D. Dynamic ARP Inspection
E. Port security

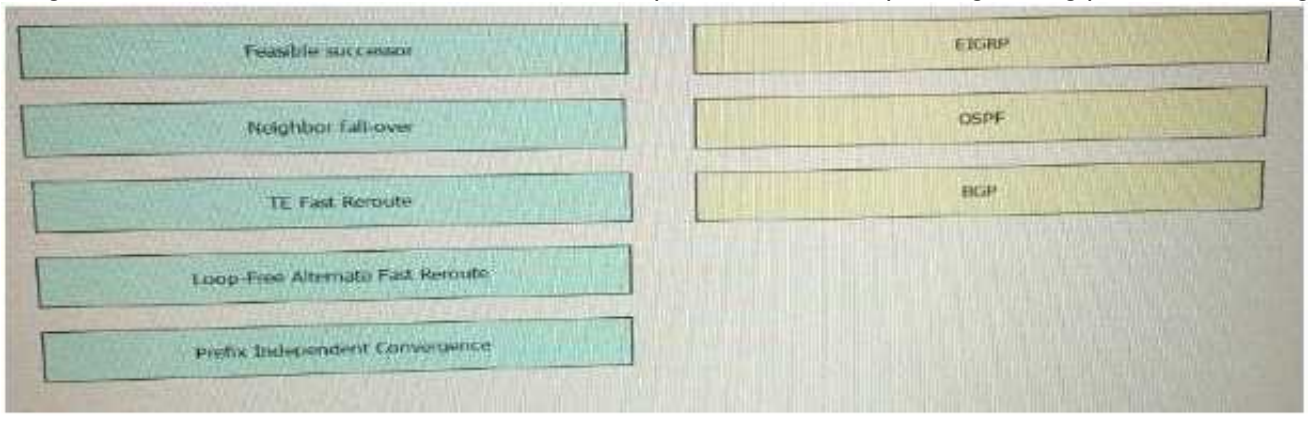
Answer: AD

NEW QUESTION 149
.which two options are benefits of using Topology Independent Loop-Free Alternate in WAN design?
(Choose two)

A. It provides backup convergence for all topologies by avoiding the post-convergence path
B. It maximizes the network utilization by load-sharing across low bandwidth and edge links while IGP convergence is in progress
C. No additional protocols are required in the MPLS network because it uses LDP labels to signal the backup path
D. Although it requires enabling segment routing, SR does not have to be activated as the preferredforwarding method
E. It can provide backup paths for IPv4, IPv6 and LDP traffic

Answer: AE

NEW QUESTION 153
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 156
Which two options are potential problems with route aggregation? (Choose two)

A. Maintaining host IP addresses during migrations
B. Route flapping
C. Suboptimal routing
D. Topology hiding
E. Asymmetric routing
F. Prefix hijacking

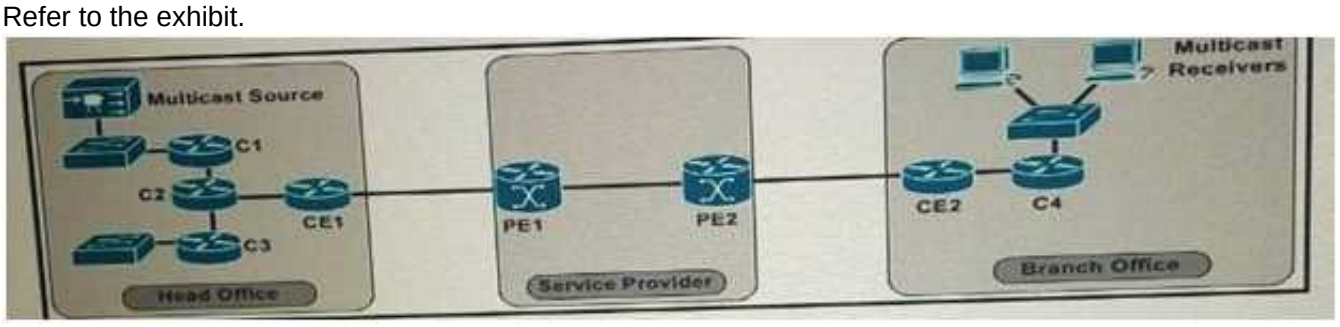
Answer: CE

NEW QUESTION 160
In an OSPF network with 20 routers connected together with Ethernet cabling , which topology typically takes the longest to converge?

A. Full mesh
B. Ring
C. Squared
D. Triangulated
E. Partial mesh

Answer: B

NEW QUESTION 164
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 167
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

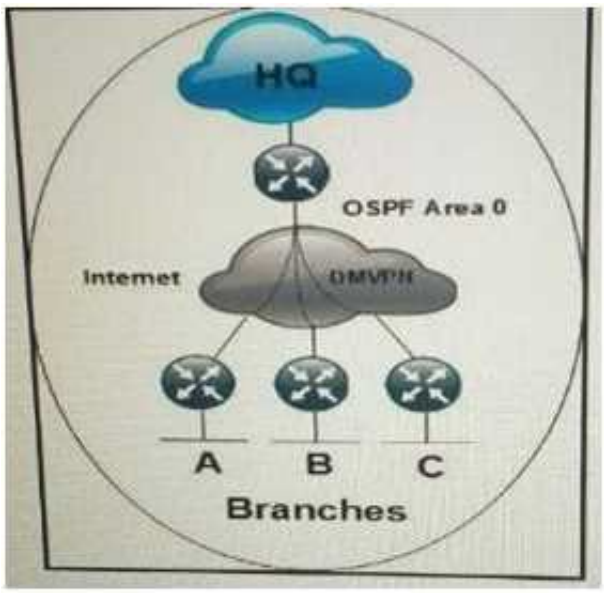
Answer: BC

NEW QUESTION 169
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 173
Refer to the exhibit.

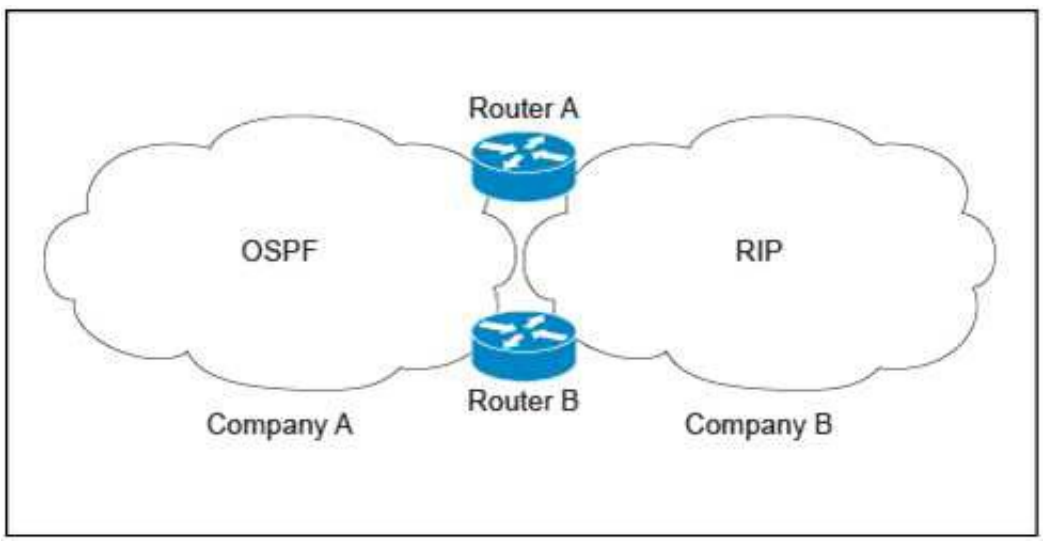


Each branch network must connect to the HQ and other branch networks over the phase 2 DMVPN network using a single tunnel interface. OSPF is running over the DMVPN network. Which network type is compatible with the DMVPN tunnel and ensures that the next hop of any route is unchanged?

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

Answer: C

NEW QUESTION 175
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

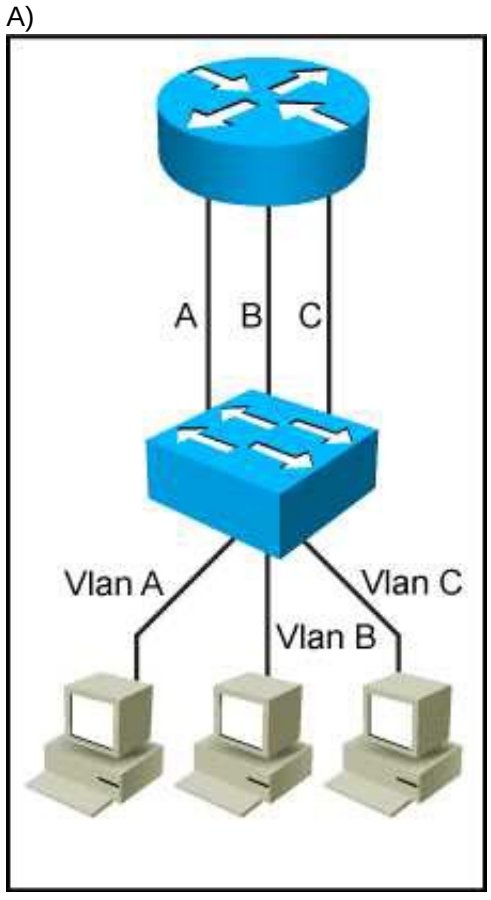
NEW QUESTION 180
Which two options are two advantages of summarizing networks at the aggregation layer rather than

at the core? (Choose two.)

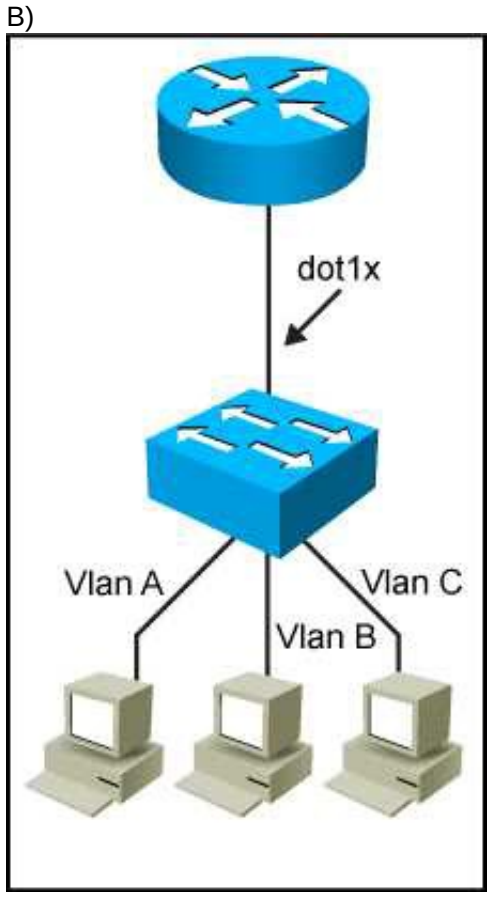
A. It prevents the core from having unnecessary routes.
B. It no longer needs a core layer.
C. It prevents black hole routing.
D. It avoids network-wide impact upon VLAN changes local to the aggregation devices.
E. it allows for optimal routing

Answer: AD

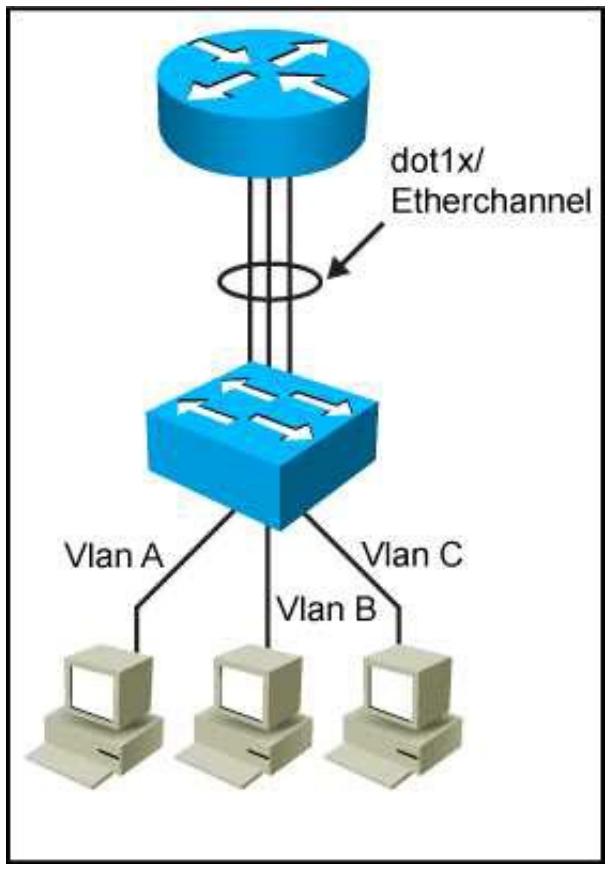
NEW QUESTION 185
Which network topology is characterized by a link fate-sharing situation?
A)



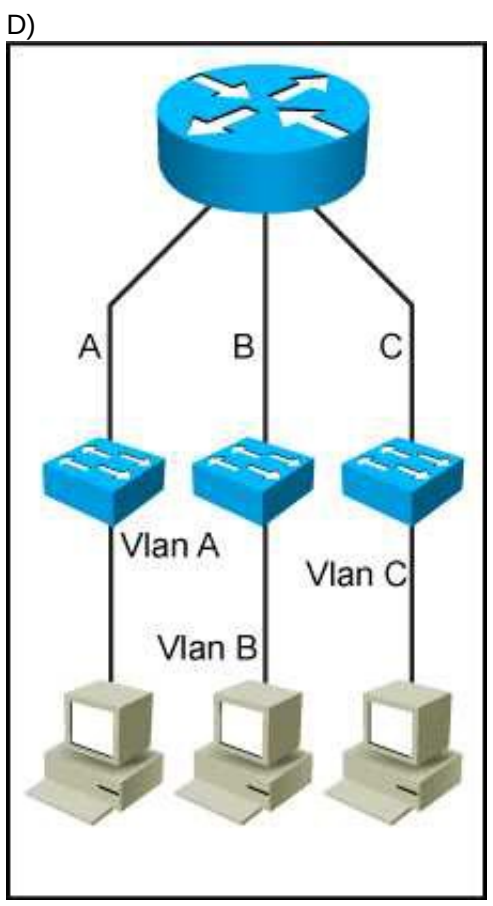
B)



C)



D)



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

Answer: B

NEW QUESTION 187
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 190
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 195
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

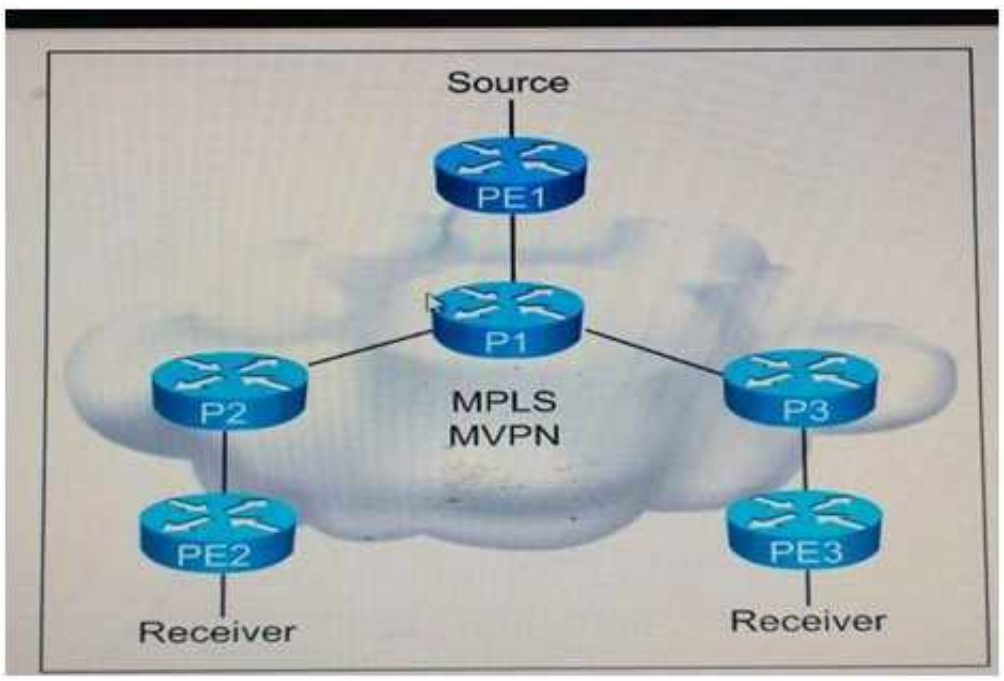
Answer: F

NEW QUESTION 196
Which two statements about AToM are true? (Choose two)

A. It encapsulates Layer 2 frames at the egress PE
B. When using AToM, the IP precedence filed is not copied to the MPLS packet
C. AToM supports connecting different L2 technologies using interworking option
D. The loopback address of the PE router must be either /24 or /32
E. It provides support for L2VPN features on ATM interfaces

Answer: CE

NEW QUESTION 201
Refer to the exhibit.



You are a network designer who is given these design requirements: Multicast services must be provided for Layer 3 VPN customers
The same forwarding technology must be used as Layer 3 VPN unicast packets Replication of multicast traffic is not allowed on the ingress PE
Which multicast VPN technology conforms to the design requirements?

A. Multipoint-to-point LDP
B. MSDP
C. MLDP VPN
D. Rosen Draft using LDP

Answer: C

NEW QUESTION 203
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 206
You are redesigning a single-level IS-IS network with 500 routers, which have short-haul and long-
haul links Most of the time the routing domain is stable, but periodically interfaces on long-haul links bounce for a short period of time , causing 10 to 20 flaps in a few minutes. The probable cause is local road construction. Although fast convergence important, the client has concerns about taxing CPU cycles on the older routing platforms. What change should you recommend that both protects the CPU of the older routers during the short periods of excessive flapping, yet does not have an impact on fast convergence for all interface failures?

A. Modify hello timers on routers with short-haul links
B. Implement LSP generation throttling on routers with long-haul links

C. Modify the length of time than an LSP remains in the router database without being refreshed on all routers
D. Implement a delay between successive IS-IS LSP packet transmissions on routers with long-haul links

Answer: D

NEW QUESTION 208
You are designing dual-homed active/active ISP connections from an enterprise customer for internet services, and you have recommended BGP between the customer and ISP. When three security mechanisms do you enable to secure the connection? (Choose three)

A. uRPF is strict mode
B. remote triggered black holes
C. IDS
D. GTSM
E. Routing protocol authentication
F. uRPF in loose mode

Answer: BEF

NEW QUESTION 213
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 217
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 221
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 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 227
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 230
Assume that no multicast optimization is done on LAN switches A and B. Which two features can be used to optimize multicast traffic forwarding in this situation? (Choose two.)

A. Enable IGMP snooping querier on both switches.
B. Configure a static MAC entry for the multicast server.
C. Disable IGMP snooping on both switches.
D. Disable the IGMP query election process.
E. Enable PIM snooping on both switches.

Answer: AC

NEW QUESTION 233
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 238
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 241
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 245
Which two conditions must be met for EIGRP to maintain an alternate loop-free path to a remote network? (Choose two)

A. The Reported Distance from a successor is lower than the local Feasible Distance
B. The Reported Distance from a successor is higher than the local Feasible Distance
C. A feasible successor must be present
D. The feasible Distance from a successor is lower than the local Reported Distance
E. The feasibility condition do not need to be met

Answer: AC

NEW QUESTION 248
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 251
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 252
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 255
What is a design benefit of PortFast?

A. PortFast allows small, unmanaged switches to be plugged into ports of access switches without risking switch loops
B. PortFast disables spanning-tree on the port, which puts the port into the forwarding state immediately after it is connected
C. Portfast does not generate a spanning-tree topology change when a station on a port is connected or disconnected
D. PortFast detects one-way communications on the physical port, when prevents switch loops
E. PortFast prevents switched traffic from traversing suboptimal paths on the network
F. PortFast prevents switch loops that are caused by a unidirectional point-to-point link condition on Rapid PVST+ and MST

Answer: B

NEW QUESTION 256
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 257
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 261
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 266
Which mechanism does OSPF use to prevent loops in an MPLS Layer 3 VPNS environment?

A. Sham link
B. Down bit
C. P-Bit
D. Domain ID
E. Routing bit

Answer: B

NEW QUESTION 269

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 271
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 276
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 280
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 281
On a large enterprise security solution, which two options are IDS or IPS modes of operation?
(Choose two)

A. Transparent mode
B. Routed mode
C. Inline mode
D. Traffic discovery mode
E. Promiscuous mode

Answer: C&E

NEW QUESTION 282
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

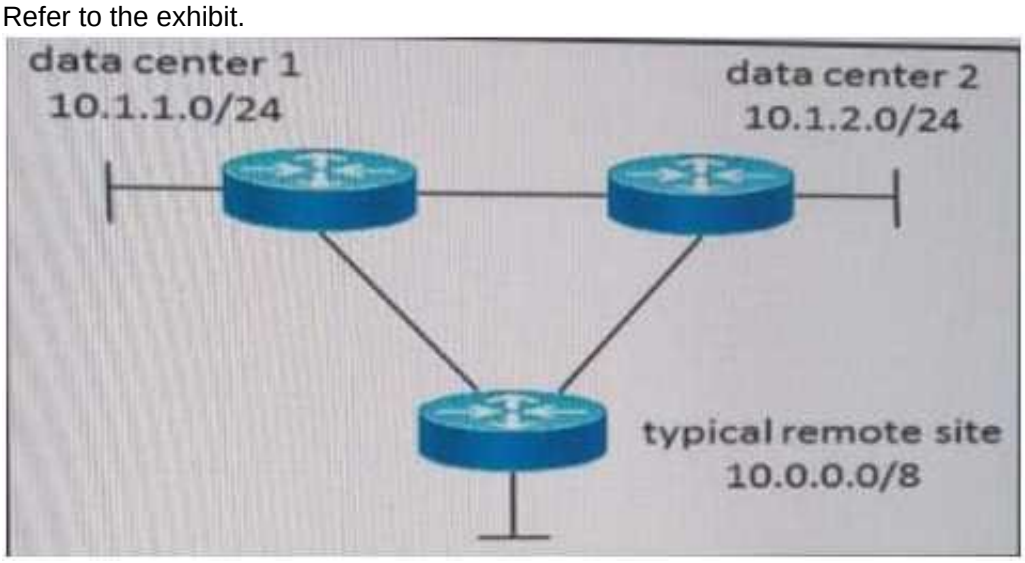
NEW QUESTION 285
In an Ethernet link containing five routers with OSPF network interface type configured as broadcast, how many OSPF adjacencies are established on this Ethernet link?

A. 7
B. 5

C. 10
D. 20
E. 6

Answer: A

NEW QUESTION 286
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

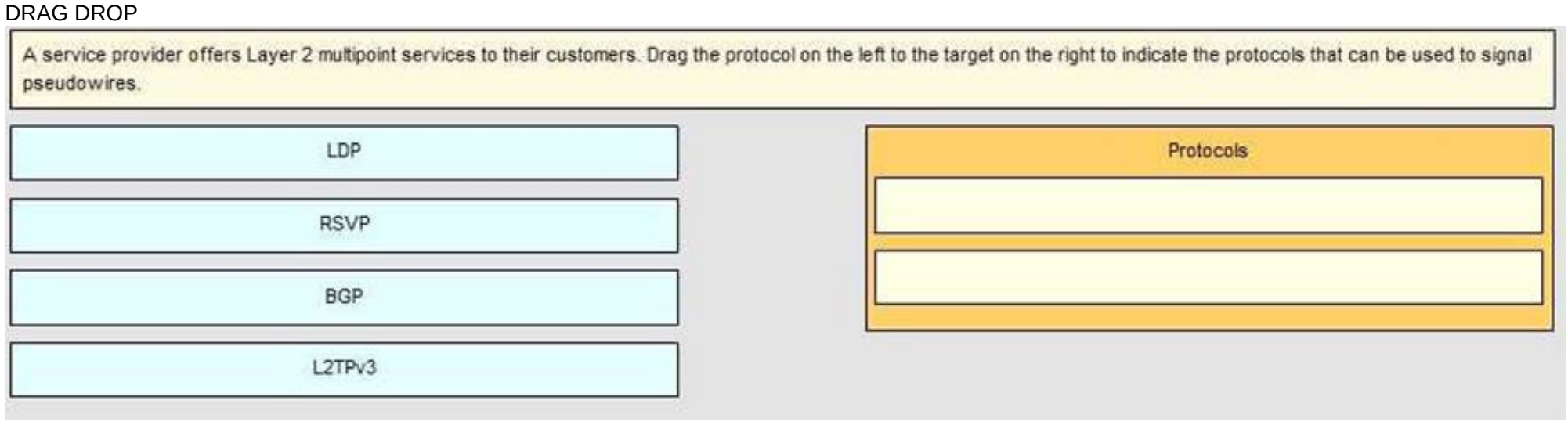
Answer: AB

NEW QUESTION 288
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

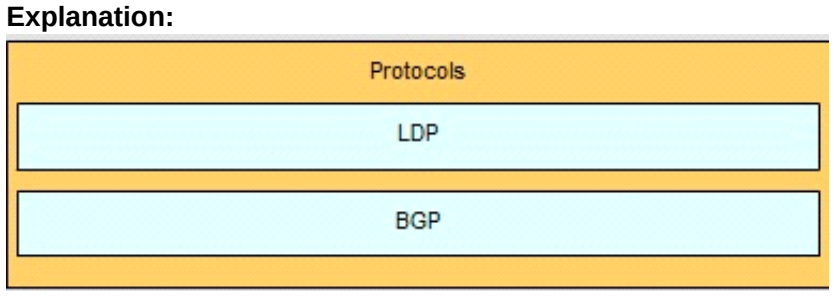
NEW QUESTION 292
DRAG DROP



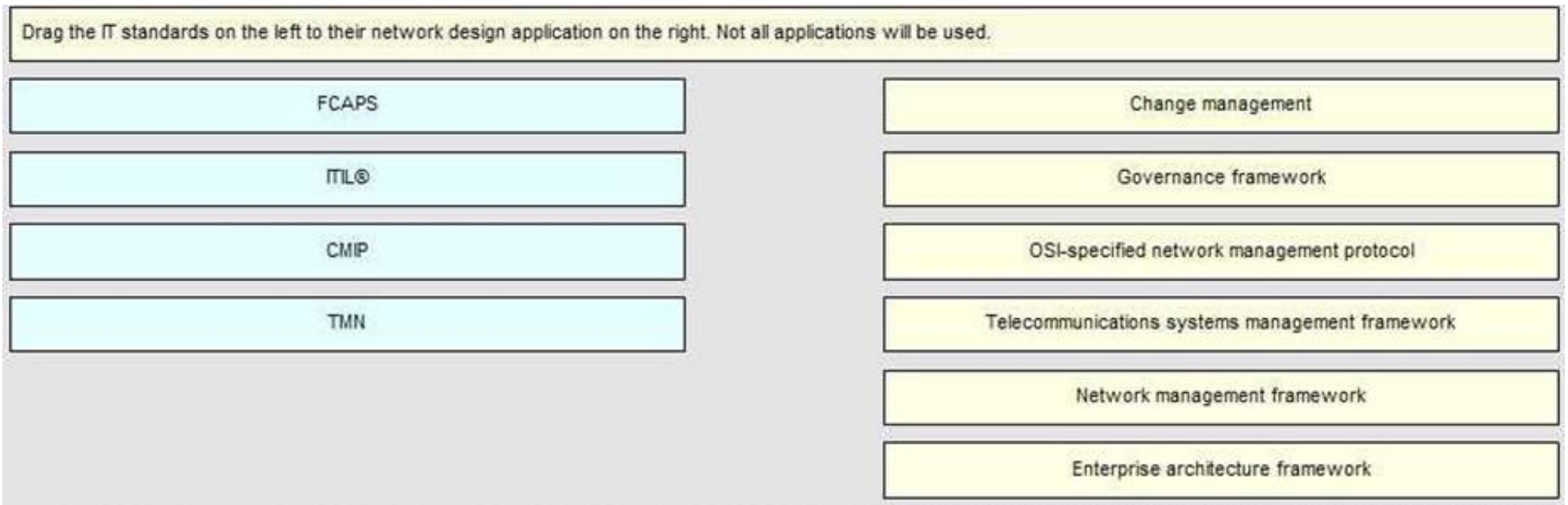
A. Mastered
B. Not Mastered

Answer: A

Explanation:



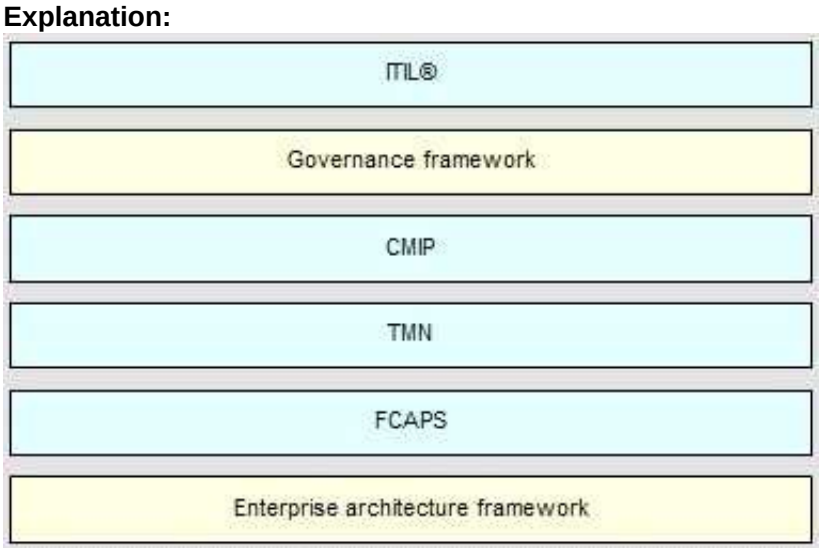
NEW QUESTION 296
DRAG DROP



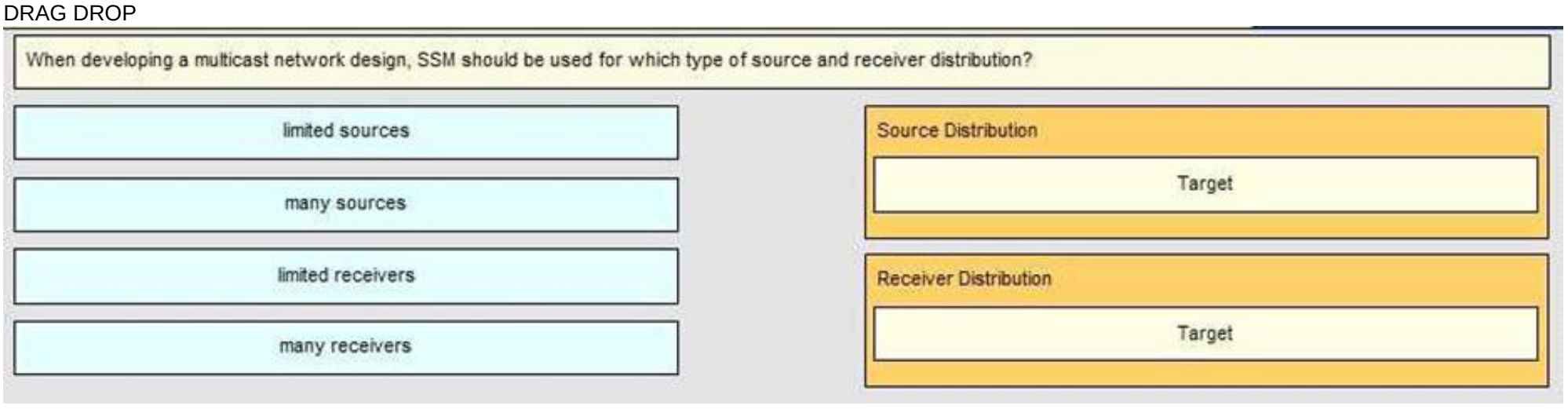
A. Mastered
B. Not Mastered

Answer: A

Explanation:



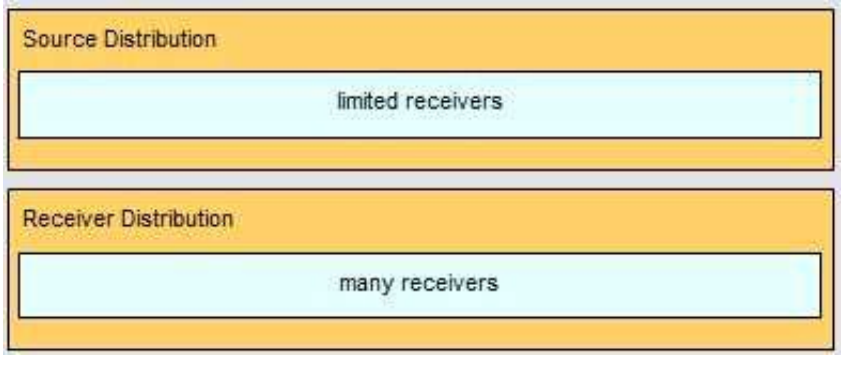
NEW QUESTION 301
DRAG DROP



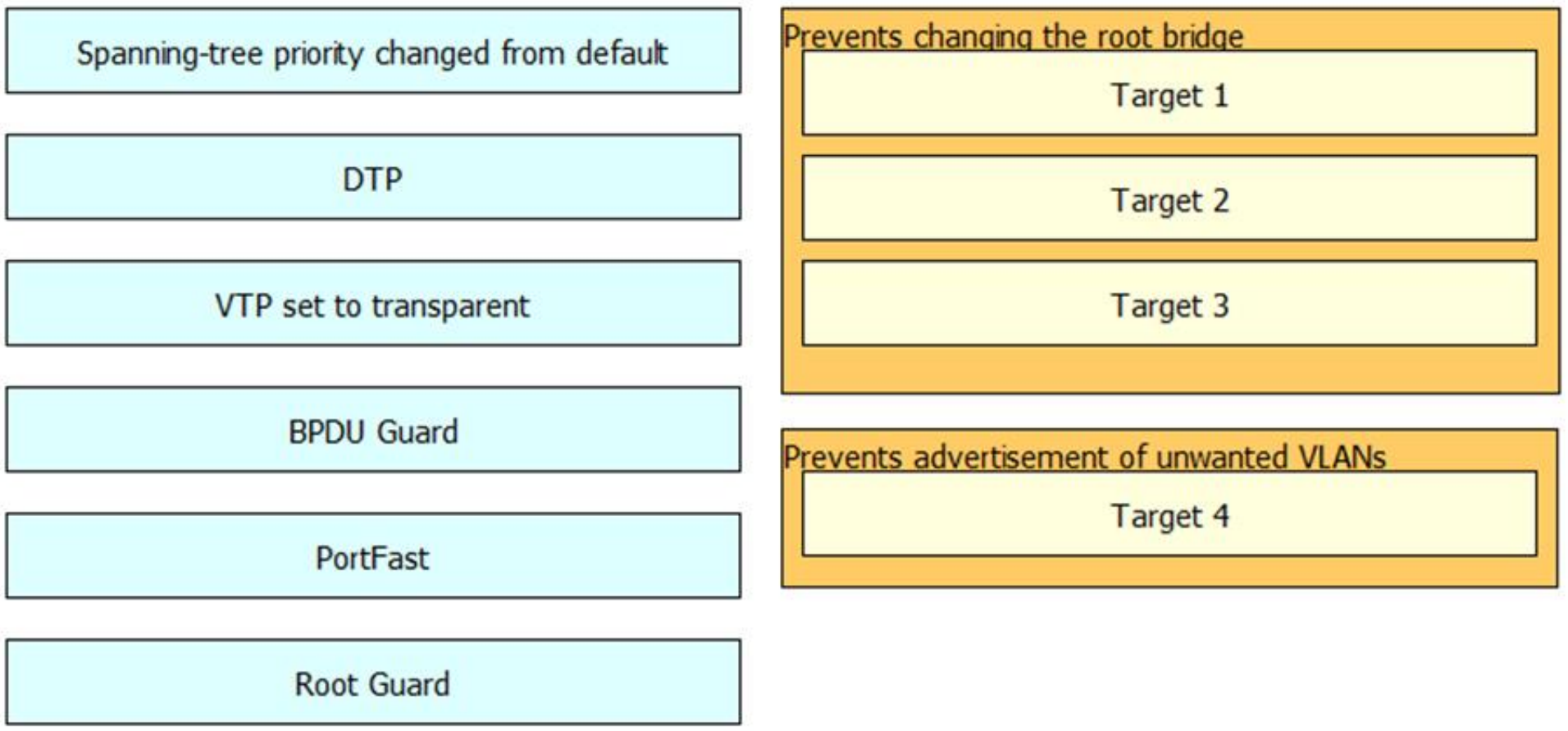
A. Mastered
B. Not Mastered

Answer: A

Explanation:



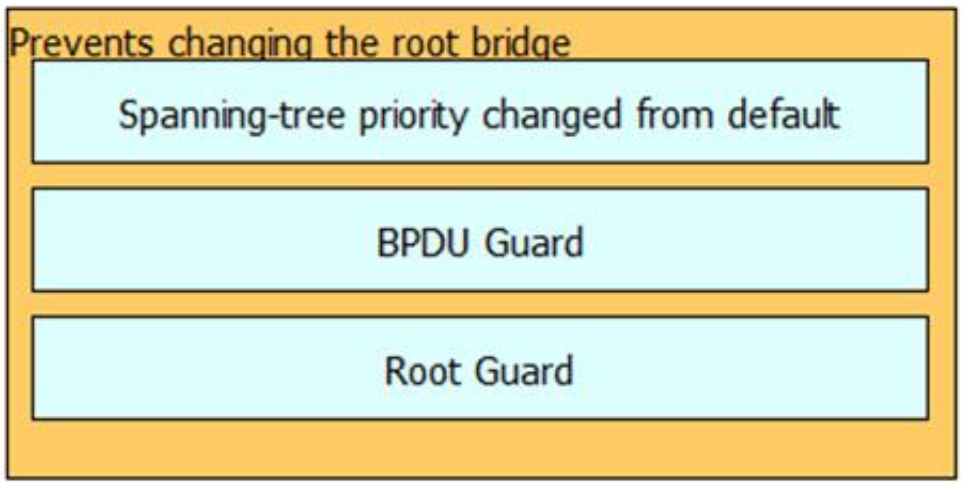
NEW QUESTION 303
DRAG DROP
A small local business recently had an outage after an employee plugged a switch into the corporate network, which caused the traffic pattern in the network to change. You have been tasked to redesign the network so that this does not happen again. From the left side to the right side, drag the PVRST+ features that should be implemented to prevent the corresponding root cause. Not all sources will be used.

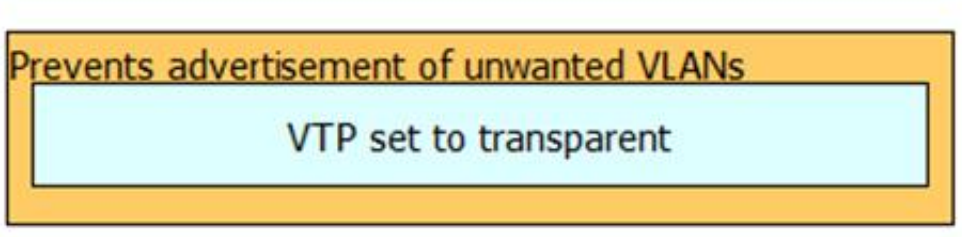


A. Mastered
B. Not Mastered

Answer: A

Explanation:



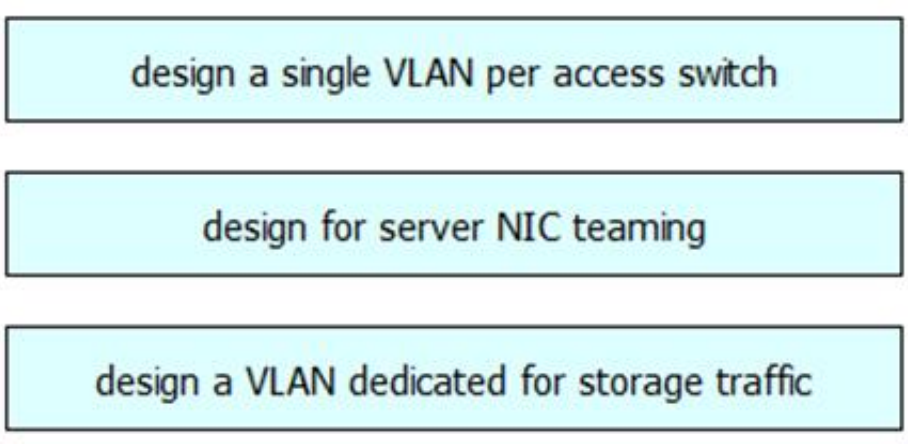


NEW QUESTION 305
DRAG DROP
You are designing a new data center network. Drag and drop new data center requirements on the left into the appropriate design principle on the right.

A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 308
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