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

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

Answer: B

NEW QUESTION 3
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
Refer to the exhibit.

```
1   {
2     "response": [
3       {
4         "id": "8f41bef8-698c-4701-af14-471e910ed9ff",
5         "hostMac": "00:50:56:8A:27:A3",
6         "hostIp": "40.0.5.12",
7         "hostType": "WIRED",
8         "connectedNetworkDeviceId": "7895a45f-47aa-42ee-9d06-c66d3b784594",
9         "connectedNetworkDeviceIpAddress": "40.0.2.18",
10        "connectedInterfaceId": "30bb14c1-8fb6-45c4-8f6d-5b845a7f448c",
11        "connectedInterfaceName": "GigabitEthernet2/0/2",
12        "vlanId": "1",
13        "lastUpdated": "September 29, 2014 1:54:13 PM PDT",
14        "numUpdates": 1,
15        "userStatus": "Active",
16        "source": 200
17      }
18    ],
19    "version": "0.0"
20  }
```
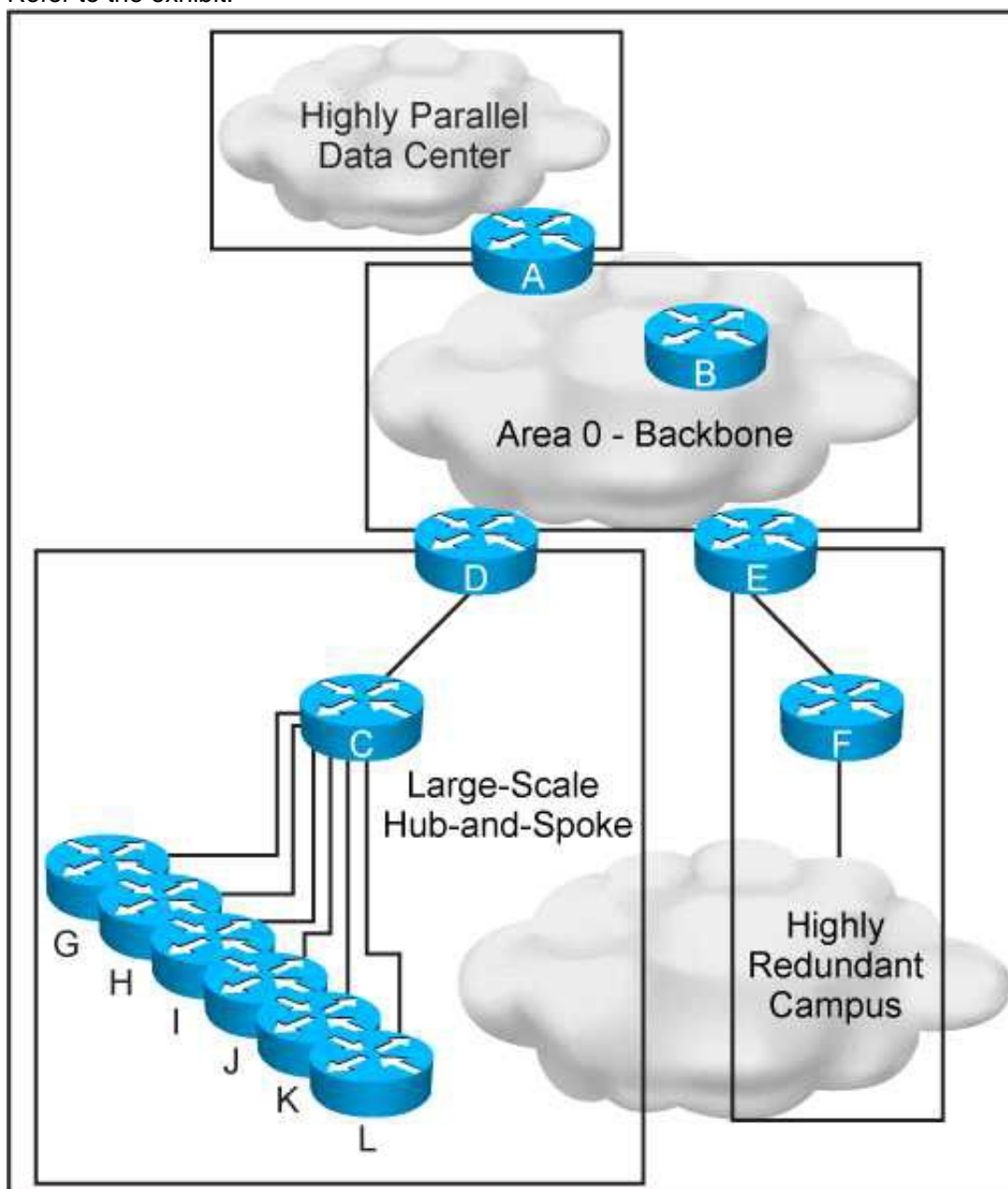
Which data format is used in this REST API call?

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

Answer: A

NEW QUESTION 8
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 9
Which option lists the cloud service models?

A. Internet as a Service, Platform as a Service, and Storage as a Service.
B. Infrastructure as a Service, Platform as a Service, and Storage as a Service.
C. Infrastructure as a Service, Platform as a Service, and Software as a Service.
D. Internet as a Service, Product as a Service, and Storage as a Service.
E. Internet as a Service, Platform as a Service, and Software as a Service.

Answer: C

NEW QUESTION 10
Refer to the exhibit.
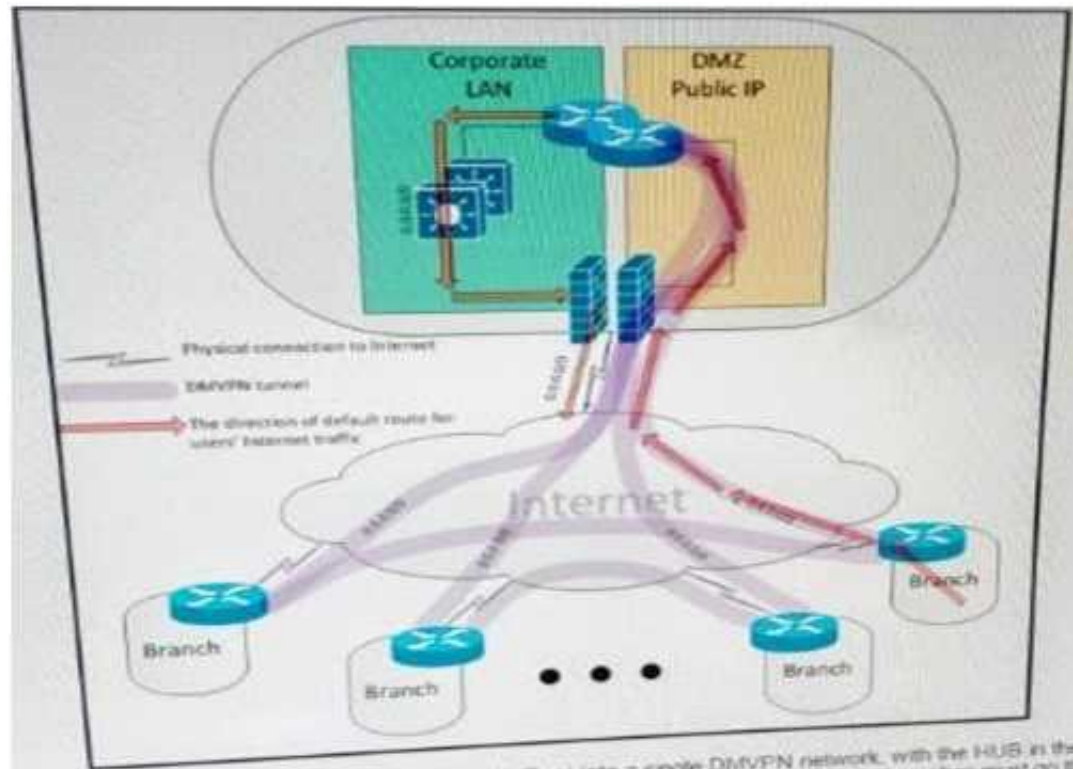
A customer interconnected hundreds of branch offices into a single DMVPN network, with the HUB
in the main data center. Due to security policies, the customer requires that the default route for all Internet traffic from the users at the branches must go through the tunnel and the only connections that are allowed to and from the branch router over the local internet circuit are the DMVPN tunnels. Which two combined actions must you take on the branch router to address these security requirements and keep the solution scalable? (Choose two)

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

Answer: AB

NEW QUESTION 10
What is a design application of control plane policing?

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

Answer: A

NEW QUESTION 15
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 18
In which two ways is a network design improved by including IP Event Dampening? (Choose two)

A. Provides sub-second convergence
B. Quickly detects network failures
C. Prevent routing loops
D. Improves network stability
E. Reduces processing load

Answer: DE

NEW QUESTION 23
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

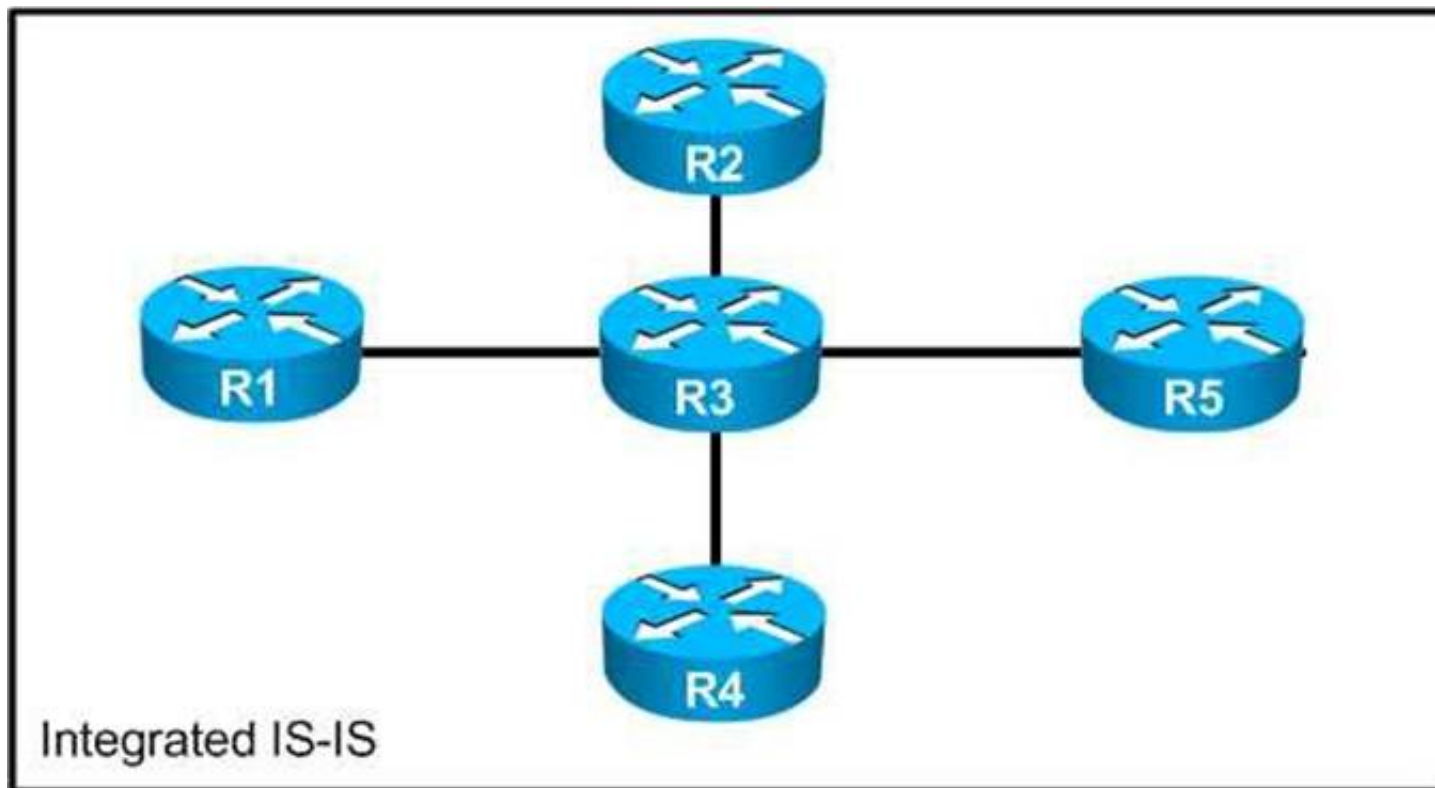**NEW QUESTION 28**
Refer to the exhibit.
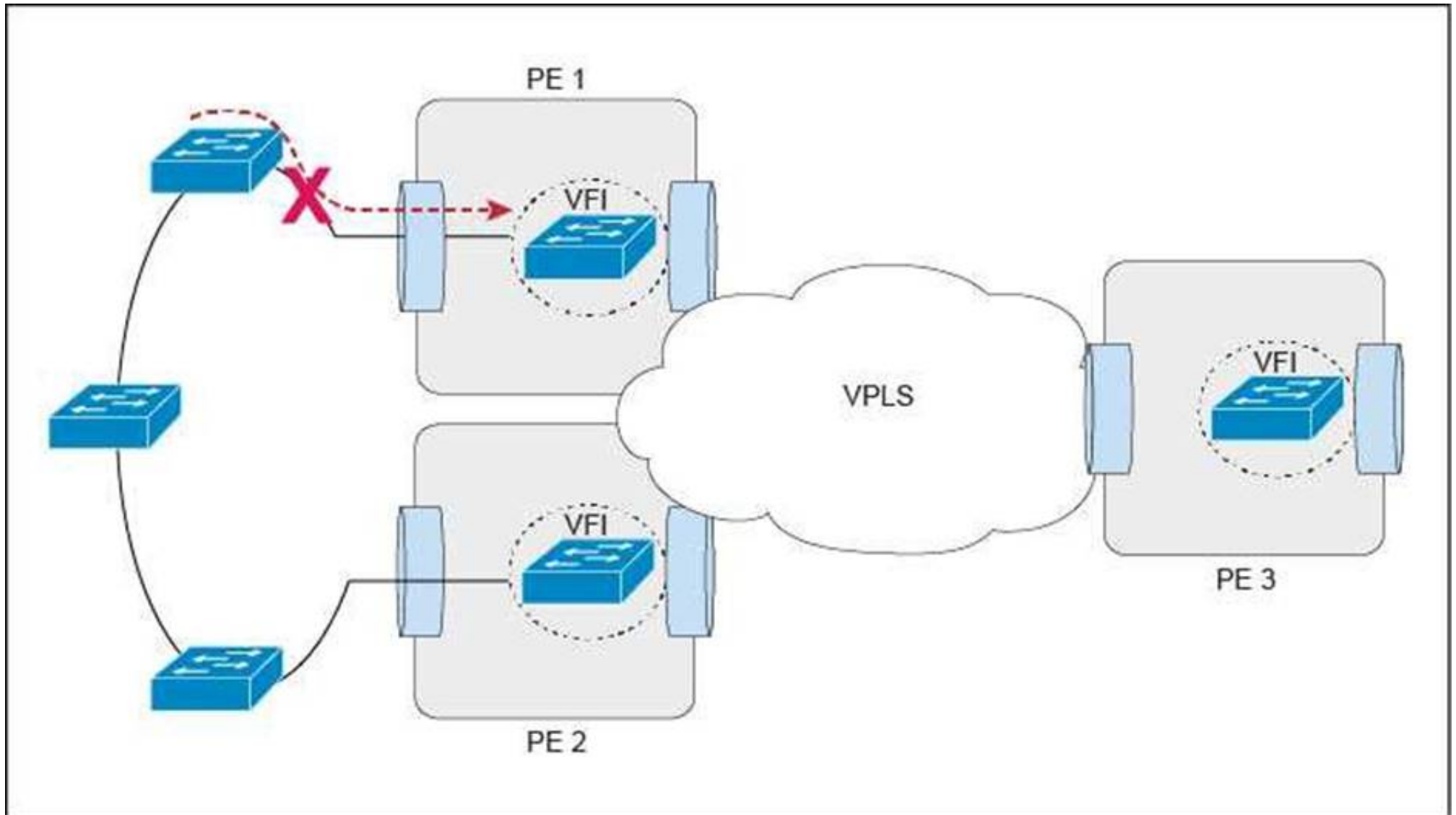
This Layer 2 ring has 10 VLANs with 1000 MAC addresses in each VLAN. Which protocol or mechanism provides the shortest traffic outage if the link marked with
"X" fails?

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

Answer: D

NEW QUESTION 29
Refer the exhibit.

Integrated IS-IS

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 31
DRAG DROP
Classify the OSPF Fast Network Convergence technique by dragging the techniques on the left and dropping them into the corresponding categories on the right.

Answer:

Explanation: Detection: carrier delay, dead timer
Processing: LSA arrival timer, incremental SPF

NEW QUESTION 34
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 35
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 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 42
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 44
Which two components are the responsibility of the customers in a platform as a Service offering?
(Choose two)

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

Answer: AD

NEW QUESTION 47
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 52
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 56
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 60
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 62
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 64
At which two networks points is route summarization supported? (Choose two)

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

Answer: BE

NEW QUESTION 66
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 70
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
Refer to the exhibit.
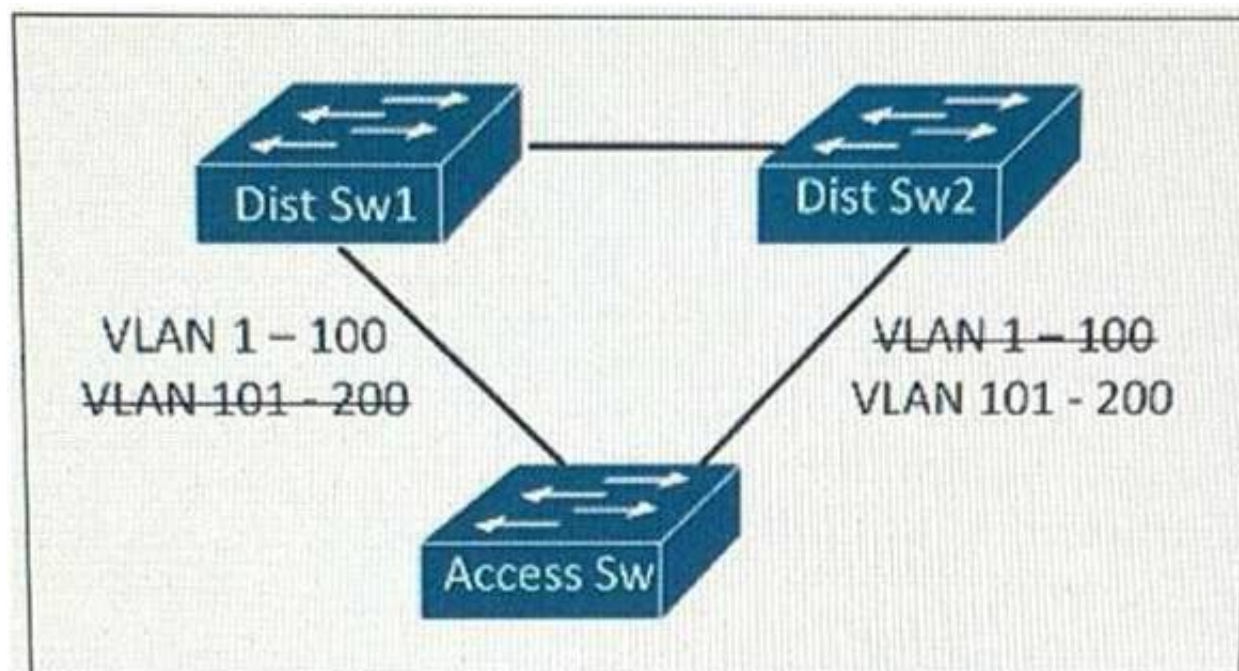
This layer 2 network is expected to add 150 VLANS over the next year, In addition to the existing 50 VLANs within the network which STP types will support this design requirement the least amount of CPU resource and achieving load balancing?

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

Answer: C

NEW QUESTION 73
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 74
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 75
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 79
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 84

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

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

Answer: B

NEW QUESTION 85

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

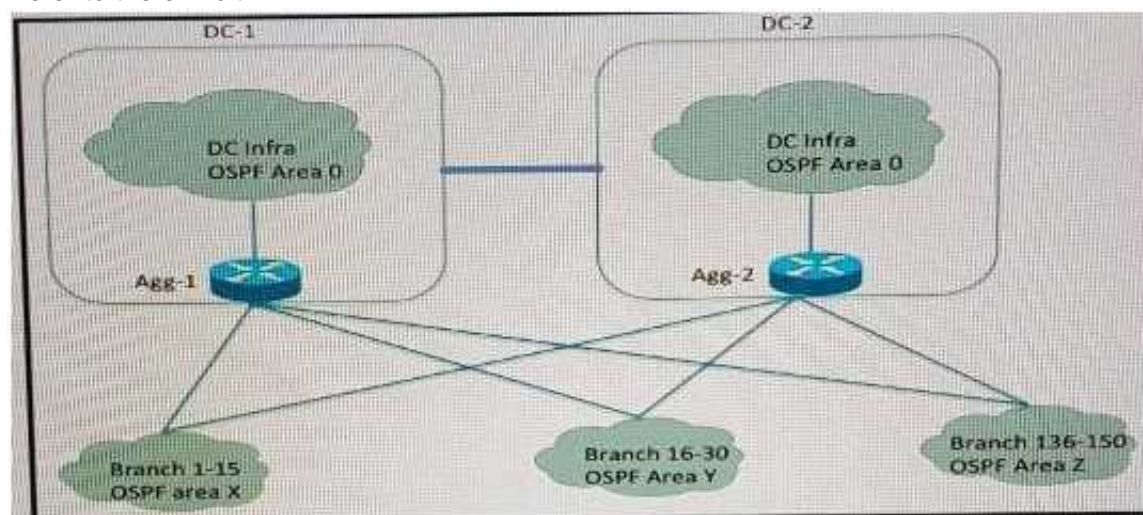**NEW QUESTION 89**
Refer to the Exhibit.
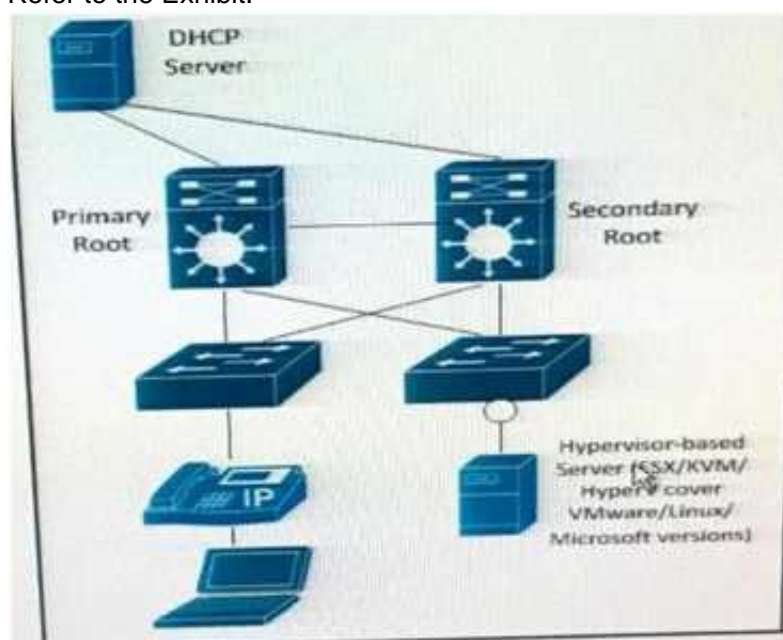
The server is running multiple VLANs on its NIC. Which two Layer 2 features should be applied to the
network location identified by a circle? (Choose two)

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 95
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 96
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 99
Refer to the exhibit.
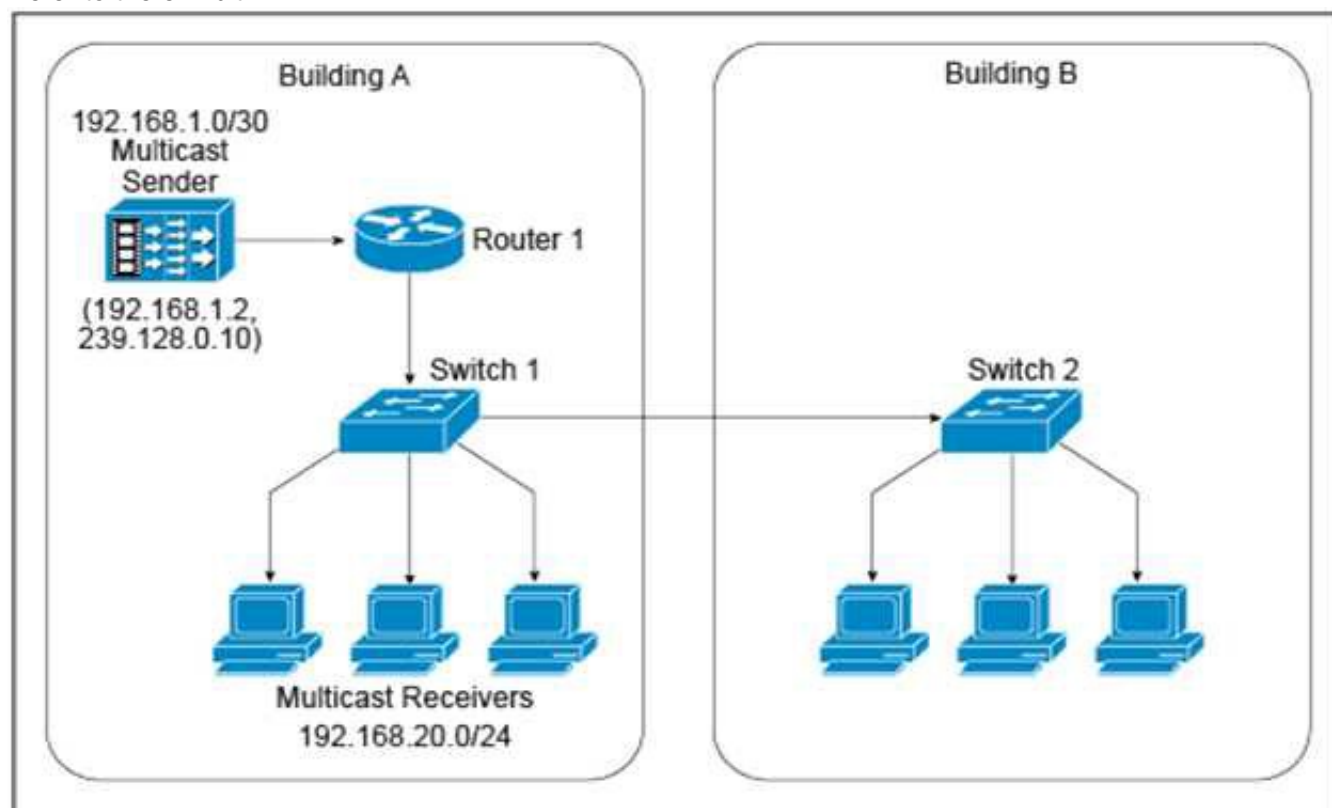
A new IPv4 multicast-based video-streaming service is being provisioned. During the design- validation tests, you realize that the link between the two buildings is
carrying multicast traffic even when there are no receivers connected to the switch in Building B and despite IGMP snooping being enabled 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 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 107
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 108
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 112
Refer to the exhibit.
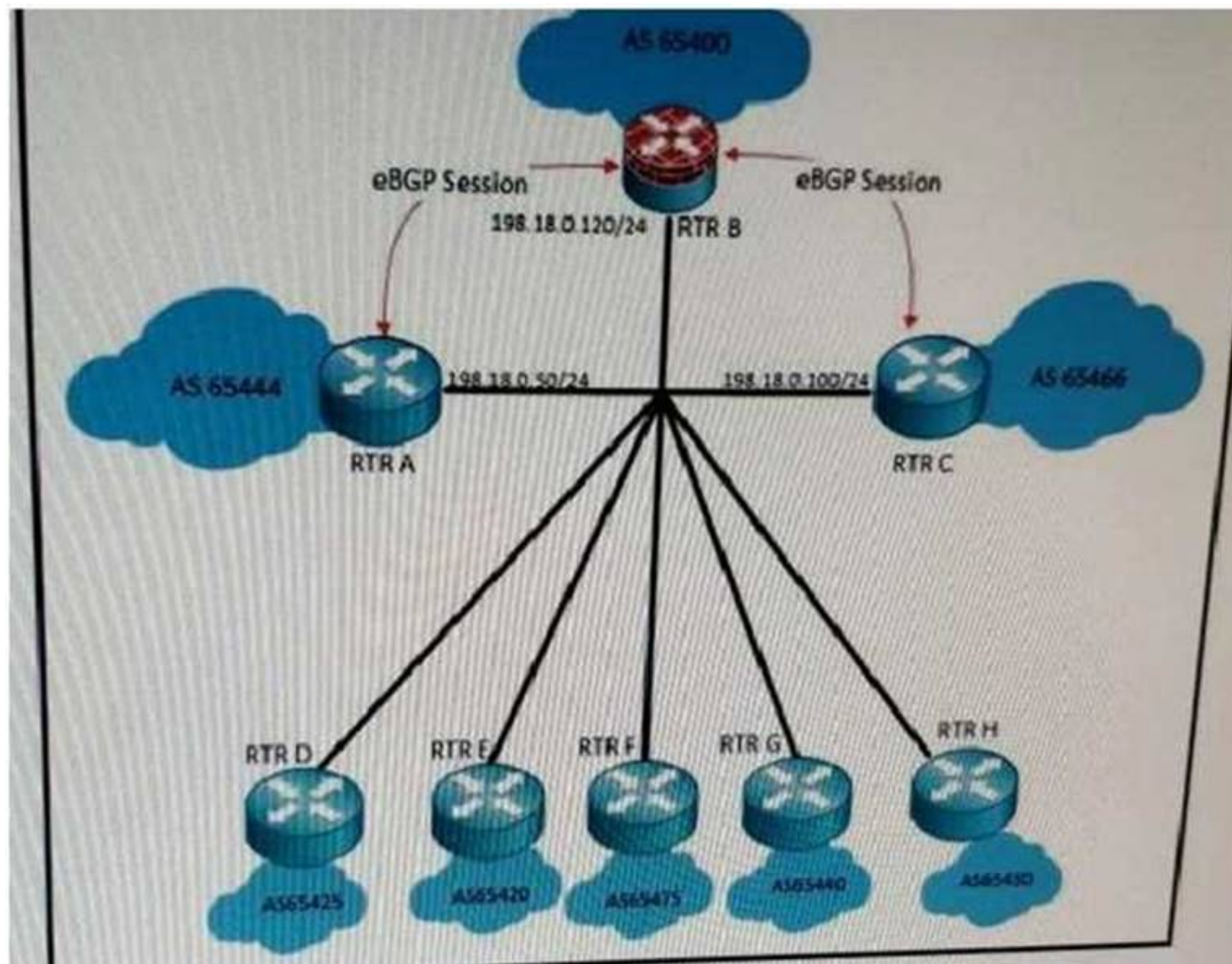
Transit traffic in this large enterprise campus network passes the eBGP core. Per security policy, traffic coming from AS 65444 destined for AS 65466 and vice-
versa must pass through AS 65400. An audit discovers that traffic between 65444 and 65466 did not pass through 65400, instead it is communicating directly.
How must you design BGP to ensure that the traffic from AS 65444 destined for AS 65466 passes through AS65400 on this broadcast network?

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

Answer: C

NEW QUESTION 117
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 119
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 124
You must make IGP redesign recommendations for a client that has old equipment, with low CPU power and memory, that they do not have budget replace. They are very concerned about CPU load on routers. They are using IS-IS as the IGP in a single l1 area and all routers are connected to each other with point-to-point links. Which method do you recommend to reduce or limit CPU overhead caused by IS-IS?

A. Use mesh groups to limit flooding of LSAs
B. Implement wide style metrics for IS-IS on all routers
C. Select a router to act as a pseudowire to limit topology synchronization
D. Divide the router into multiple areas and implement address summarization

Answer: A

NEW QUESTION 127
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 129
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 130
What two options are significant drivers for 5G in IoT networks? (Choose two)

A. Energy Efficiency
B. Lower Latency
C. Mass Connectivity
D. Programmability
E. Higher data rates

Answer: BC

NEW QUESTION 133
.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 138
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
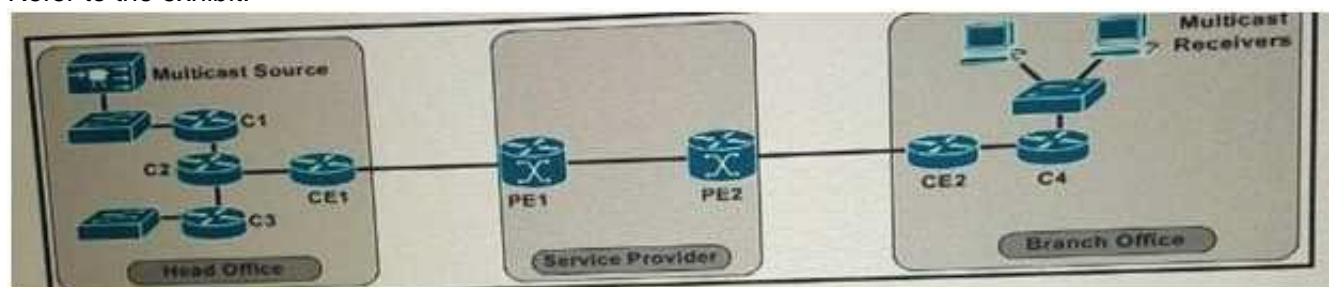F. Prefix hijacking

Answer: CE

NEW QUESTION 141
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 145
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 150
Which two OSPF network type combinations can you use in the design that requires spoke-to-spoke
direct traffic? (Choose two.)

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

Answer: BC

NEW QUESTION 154
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 158
Refer to the exhibit.
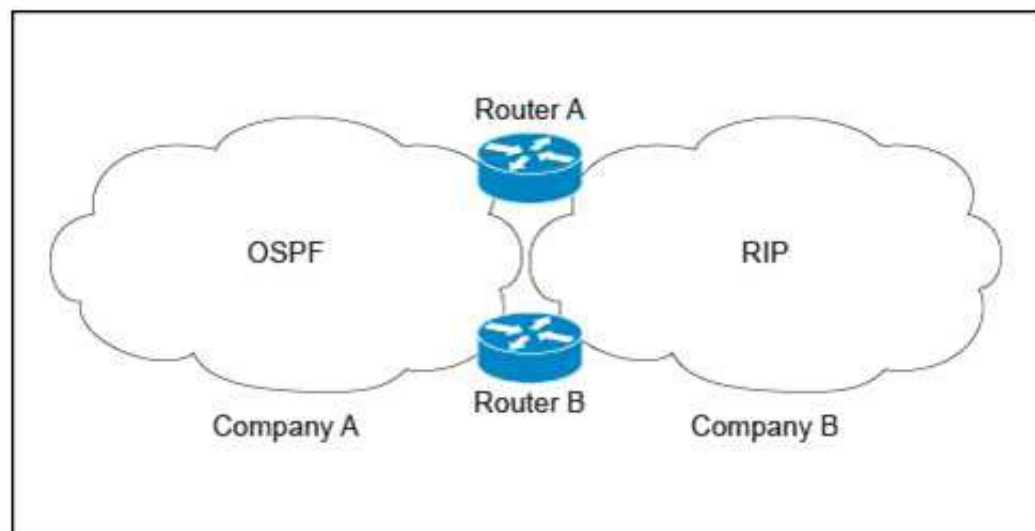
Company A is running a single-area OSPF, and Company B is running RIP as the IGP with no overlapping IP address spaces. Company A has just acquired Company B and both networks must be merged. Which three design components are recommended to guarantee connectivity and redundancy between the two networks? (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 161
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 166
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 170
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 174
An enterprise network has two core routers that connect to 200 distribution routers and uses full-
mesh iBGP peering between these routers as its routing method. The distribution routers are experiencing high CPU utilization due to the BGP process. Which design solution is the most effective?

A. Increase the memory on the distribution routers
B. Increase the memory on the core routers
C. Implement route reflectors on the two core routers
D. Increase bandwidth between the core routers
E. Implement eBGP between the core and distribution routers

Answer: C

NEW QUESTION 179
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 183
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 187
Which option describes the fundamental design differences between an IP-based network design
and a SAN-based?

A. An IP-based design has redundant connectivity in the fabric and high amounts of east-west traffic, whereas a SAN-based design uses redundancy from a dual-attached host, which uses separate fabrics and has very little east-west traffic
B. An IP-based design has redundancy from the host and high amounts of east-west traffic, whereas a SAN-based design uses redundancy in the fabric and very little east-west traffic
C. An IP-based design has redundant connectivity in the fabric and high amounts of east-west traffic, whereas a SAN-based design uses zoning based redundancy which uses separate fabrics and has very little east-west traffic
D. An IP-based design has redundant connectivity in the fabric and very little east-west traffic, whereas a SAN-based design uses redundancy in the host, which uses separate fabrics and has high amounts of east-west traffic

Answer: A

NEW QUESTION 190
Refer to the exhibit.
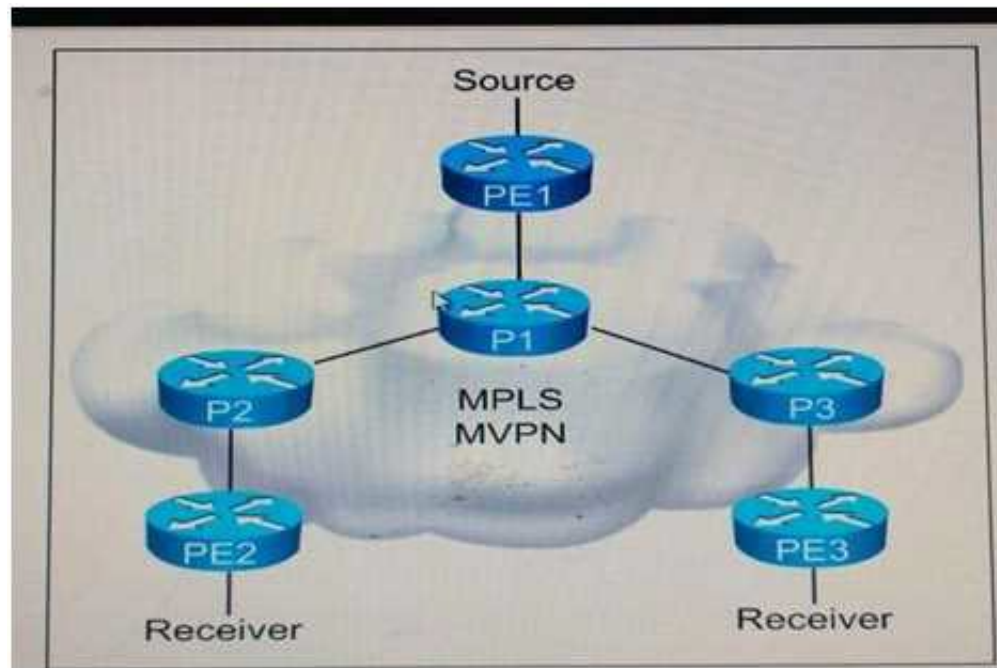
You are a network designer who is given these design requirements: Multicast services must be provided for Layer 3 VPN customers
The same forwarding technology must be used as Layer 3 VPN unicast packets Replication of multicast traffic is not allowed on the ingress PE
Which multicast VPN technology conforms to the design requirements?

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

Answer: C

NEW QUESTION 191
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 195

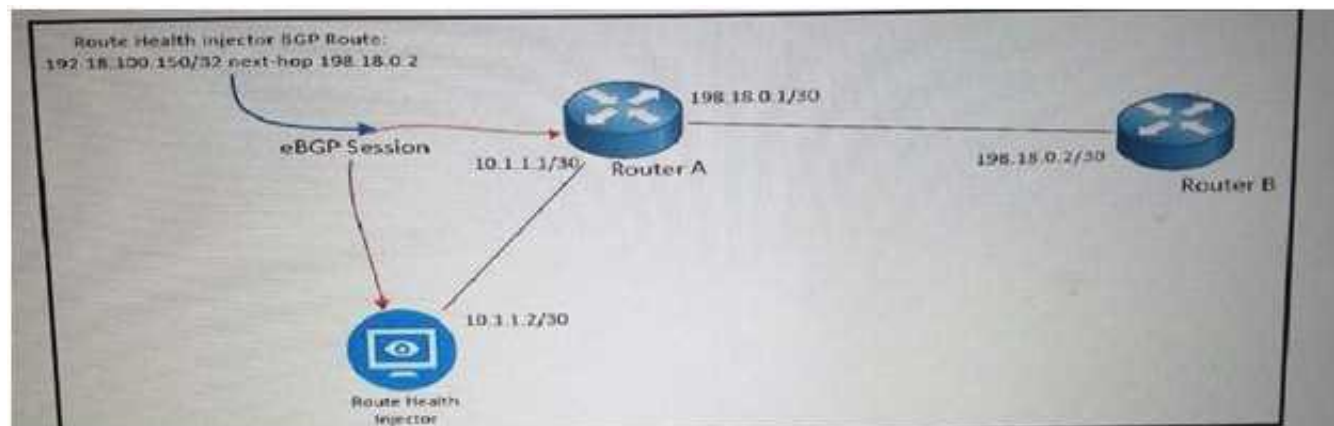Which mechanism enables small, unmanaged switches to plug into ports of access switches without
risking switch loops?

A. PortFast
B. UDLD
C. Root guard
D. BPDU guard

Answer: C

NEW QUESTION 197

Refer to the exhibit.

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

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

Answer: A

NEW QUESTION 198

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 199

What is design considerations of policy-based routing?

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

Answer: B

NEW QUESTION 202

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 206

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 207
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 212
How must queue sizes be designed to ensure that an application functions correctly?

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

Answer: D

NEW QUESTION 215
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 225
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 226
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 229
Which three reasons to deploy an IDS sensor in promiscuous mode when you design a security solution are true? (Choose three.)

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

Answer: ACD

NEW QUESTION 234
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 235
Which aspect is a significant disadvantage of containers?

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

Answer: A

NEW QUESTION 238
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 239
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 242
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 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 248
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 251
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 253
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 255
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 259
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 264
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: ACE

NEW QUESTION 265
DRAG DROP

Drag the QoS tools on the left and drop each into its corresponding function on the right.

QoS Tools	Functions
Policing	Addresses congestion that is due to speed mismatches when CIR is not exceeded.
Marking	Drops traffic to ensure that the committed or offered rate are not exceeded.
Buffering	Allows drops to be minimized based on traffic classification when CIR is exceeded.
WRED	Allows for consistent classification within a DiffServ domain.
Shaping	Avoids congestion via selective traffic dropping within the network.
ECN	Avoids congestion by end hosts reducing their traffic rates when congestion is detected.

Answer:

Explanation:

Buffering
Policing
Shaping
Marking
WRED
ECN

NEW QUESTION 267
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