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QUESTION 1

Which OSPF design consideration, with regards to simplicity and address preservation, must be considered when connecting two Layer 3 switches directly using 10 GBASE-T cabling and formatting an OSPF neighbor adjacency?

- A. Mesh groups must be included in the design
- B. The OSPF Hello and Dead timers must be tuned to detect failures as quickly as possible
- C. The OSPF network type must be set to point-to-multipoint
- D. An OSPF neighbor adjacency formed over loopback interfaces must be placed in Area 0
- E. The OSPF network type must be set to point-to-point

Correct Answer: E

QUESTION 2

A service provider creates a network design that runs MPLS in its WAN backbone using OSPF as the IGP routing protocol. What would be two effects of additionally implementing MPLS-TE? (Choose two.)

- A. MPLS-TE is required to reroute traffic within less than 1 second in case of a link failure inside the backbone.
- B. MPLS-TE is required to route different MPLS QoS service classes through different paths.
- C. MPLS-TE and OSPF cannot be used together inside one MPLS network.
- D. MPLS-TE cannot use OSPF for the traffic path calculation.
- E. MPLS-TE is required to create backup paths independently from the IGP.

Correct Answer: BE

QUESTION 3

When a design calls for spanning VLANs across a campus network, what are two issues that need to be addressed in the design? (Choose two.)

- A. network convergence
- B. network accessibility
- C. fault isolation
- D. application scalability
- E. user experience

Correct Answer: AC



QUESTION 4

A company wants to prioritize voice traffic at their network edge and ensure that it has reserved some minimum bandwidth and treated with priority in the core. QoS is not currently implemented in the core, but MPLS with RSVP as the signaling protocol is already enabled. Which three actions do you recommend to optimize the voice traffic in the core with minimal changes? (Choose 3)

- A. Configure PHB queueing policies on every core node based on the DSCP value.
- B. Create GRE tunnels through the core and configure PBR to forward the voice traffic into those tunnels.
- C. Create RSVP tunnels through the core, reserving a minimum bandwidth for voice traffic.
- D. Perform class-based tunnel selection to forward voice packets through MPLS tunnels in the core based on DSCP value.
- E. Enable LDP throughout the core and configure PHB queueing policies based on the MPLS EXP field.
- F. Mark the voice traffic at the network edge with a specific DSCP value.

Correct Answer: CDF

QUESTION 5

What is the function of the Community String field defined in a trap PDU?

- A. enable the routing of messages
- B. allow authentication by management station
- C. enable reliable delivery of messages
- D. isolate the PDU within a defined region of the network

Correct Answer: B

QUESTION 6

Which workflow-based software solution provides automation and orchestration processes for compute, network, and storage with support for these features? single-pane infrastructure management, support for multiple hypervisors, storage provisioning with EMC and NetApp, abstraction of hardware and software elements into more than 1000 programmable workflows, self-provisioning of virtual machines using catalogs.

- A. OpenStack
- B. Ansible



- C. Cisco Intelligent Automation for Cloud
- D. Cisco UCS Director

Correct Answer: D

QUESTION 7

A customer is using a service provider to provide a WAN backbone for a 30-site network. In establishing the network, the customer must work within these constraints:

The customer has a self-managed MPLS backbone.

The VPLS WAN backbone of the service provider does not support PIM snooping.

Multicast VPN must be used for multicast support inside some VRFs.

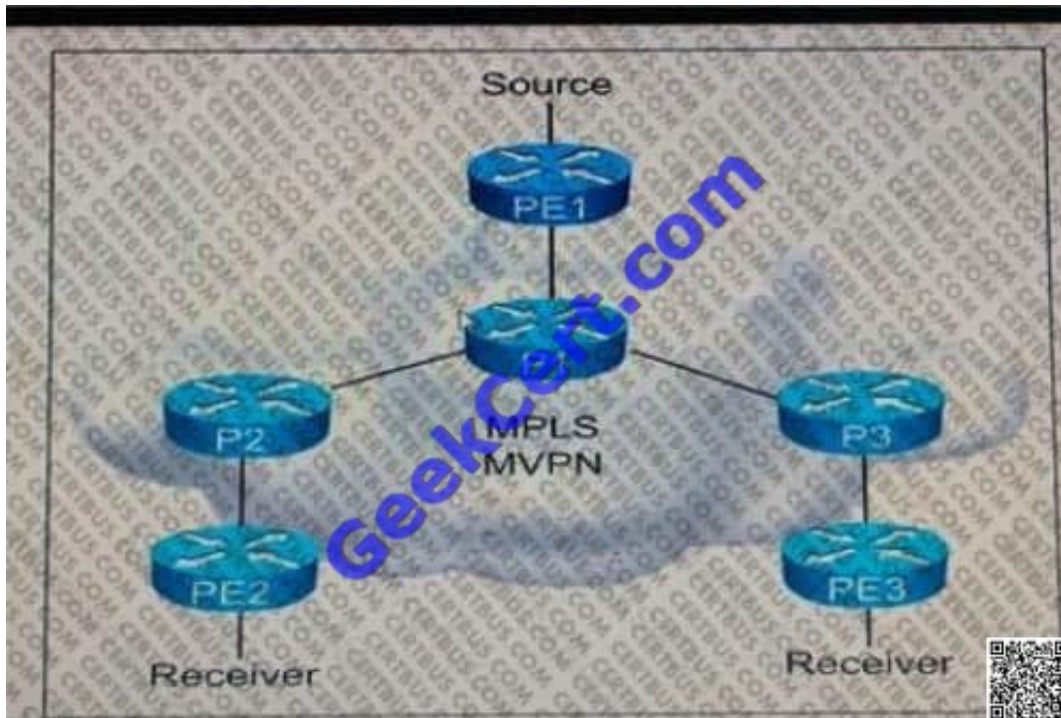
What can the customer do so that multicast traffic is NOT flooded to all sites?

- A. Configure static GRE tunnels and run the MPLS and multicast VPN inside these GRE tunnels.
- B. Use Label Switched Multicast for the multicast transport.
- C. Use PIM-SSM as the multicast routing protocol with IETF Rosen Draft multicast VPN.
- D. Configure a static mapping between multicast addresses and MAC addresses.
- E. Use GET VPN to encrypt the multicast packets inside the WAN.

Correct Answer: A

QUESTION 8

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

Correct Answer: C

QUESTION 9

When using LDAP servers, you should configure the password policy to prevent _____.

- A. DoS attacks
- B. dictionary attacks
- C. flood attacks
- D. man-in-the-middle attacks

Correct Answer: B

QUESTION 10



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

Correct Answer: AD

QUESTION 11

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

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

Correct Answer: AE

QUESTION 12

What are three key design principles when using a classic hierarchical network model? (Choose three.)

- A. The core layer controls access to resources for security.
- B. The core layer should be configured with minimal complexity.
- C. The core layer is designed first, followed by the distribution layer and then the access layer.

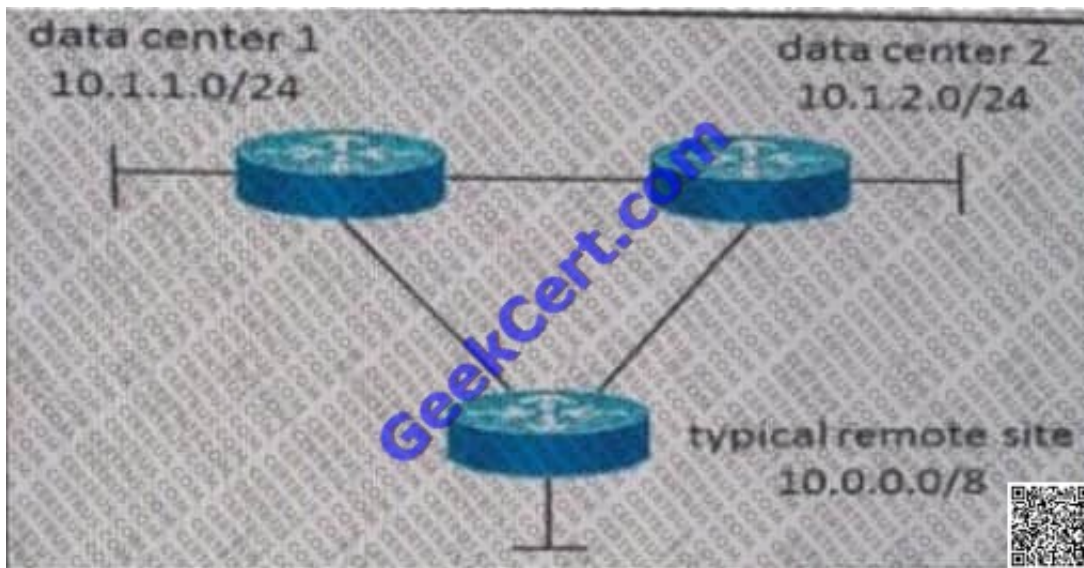


- D. A hierarchical network design model aids fault isolation.
- E. The core layer provides server access in a small campus.
- F. A hierarchical network design facilitates changes.

Correct Answer: BDF

QUESTION 13

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

Correct Answer: AB

QUESTION 14

Which tunneling mechanism provides confidentiality as well as tunneling capabilities?



A. MPLS L3VPN

B. IPsec ESP

C. L2TPv3

D. IPsec AH

Correct Answer: B

QUESTION 15

Which are two data plane hardening techniques? (Choose two)

A. Infrastructure ACLs

B. Control Plane Policing

C. Redundant AAA servers

D. Disable unused services

E. Routing protocol authentication

F. SNMPv3

G. Warning banners

Correct Answer: AB

QUESTION 16

A network design engineer is designing a new storage area network that combines multiple separate legacy SAN environments within a data center. Which technology isolates events within one of the SAN environment from the others?

A. FCIP tunnels

B. N-port ID Virtualization

C. N-Port Virtualization

D. Virtual SANs

Correct Answer: D

QUESTION 17

In a PIM sparse mode network, how is the flow of multicast traffic restored when a link fails along a branch of a multicast



distribution tree?

- A. The downstream receivers notice the loss of the multicast flow and resend PIM join messages to reestablish the tree.
- B. The downstream receivers notice the loss of the multicast flow and resend IGMP Membership Reports to reestablish the tree.
- C. The traffic reverts to the shared tree while the downstream router recalculates the RPF interface and sends a new PIM join message to the RP.
- D. The router downstream of the break recalculates the RPF interface when it notices a change in the unicast routing table and immediately sends a new PIM join message out from the new RPF.

Correct Answer: D

QUESTION 18

Enterprises A and B agree to merge, but keep IGP and BGP independent of each other. They are served by a common ISP for their Internet connectivity. During the merge, A and B will provision a point-to-point link between the two networks. What is the simplest design option that will allow data to travel between A and B without passing through the ISP?

- A. configure OSPF and make OSPF routes more attractive than the same routes learned via EBGP from the ISP
- B. configure OSPF and make OSPF routes less attractive than the same routes learned via EBGP from the ISP
- C. configure EBGP between the two networks and block each other's routes from the ISP
- D. configure iBGP between the two networks and block each others route's from the ISP
- E. configure OSPF between the two networks and block each others route's from the ISP

Correct Answer: C

QUESTION 19

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

Correct Answer: C



QUESTION 20

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

Correct Answer: BC

QUESTION 21

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

Correct Answer: A

QUESTION 22

A network designer wants to improve a company network design due to multiple network crashes. Which technology would allow for the restore of a network connection without informing the Layer 3 protocol?

- A. Bidirectional Forwarding Detection
- B. automatic protection switching
- C. UniDirectional Link Detection
- D. Ethernet OAM

Correct Answer: B



QUESTION 23

Which statement is correct about policy-based routing?

- A. It can create microloops during network reconvergence.
- B. It should be implemented at both ends of a GRE tunnel.
- C. It can limit the network scalability.
- D. It decreases failure detection time.

Correct Answer: A

QUESTION 24

You are tasked with implementing a 1000-phone remote access solution, where phones will traverse a WAN edge router. Assuming all of the following features are supported in a hardware- assisted manner, which of the following will have the most detrimental impact on the delay of the packet?


- A. encryption
- B. stateful firewall
- C. MPLS encapsulation
- D. GRE encapsulation

Correct Answer: A

QUESTION 25

What is the definition of jitter, and how must network designers compensate for jitter so an IP network can carry real-time VoIP traffic?

Jitter is the actual delay between the time a packet is expected to transmit and when it actually transmits.	<p>Definition of jitter</p> <hr/> <p>How to compensate for jitter</p> <hr/>
Jitter is the variation between the time a packet is expected to arrive and when it actually arrives.	
Jitter is the variation between the time a packet is expected to drop and when it actually drops.	
Set up a play-in buffer to play back the voice stream in a smooth fashion and avoid discontinuity in the voice stream.	
Set up a play-out buffer to play back the voice stream in a smooth fashion and avoid discontinuity in the voice stream.	




Correct Answer:



What is the definition of jitter, and how must network designers compensate for jitter so an IP network can carry real-time VoIP traffic?

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Jitter is the variation between the time a packet is expected to drop and when it actually drops.	How to compensate for jitter Set up a play-out buffer to play back the voice stream in a smooth fashion and avoid discontinuity in the voice stream.
Set up a play-in buffer to play back the voice stream in a smooth fashion and avoid discontinuity in the voice stream.	



QUESTION 26

You are identifying performance management requirements for a VoIP migration. What three key performance indicators would you use to track media quality? (Choose three.)

- A. delay
- B. trunk group usage
- C. jitter
- D. packet loss
- E. call processing (call detail records)
- F. call processing (performance counters)
- G. echo
- H. crosstalk

Correct Answer: ACD

QUESTION 27

You are designing a network that includes IP QoS. Which two architectures could be used to ensure that IP QoS is implemented properly? (Choose two.)

- A. Differentiated Services, where the user, with the assistance of the RSVP signaling protocol, reserves the resources end to end before sending the data
- B. Integrated Services, where the user, with the assistance of the RSVP signaling protocol, reserves the resources end to end before sending the data
- C. Integrated Services, which relies on the information carried within each packet to make resource-allocation decisions at each network node



D. Differentiated Services, which relies on the information carried within each packet to make resource allocation decisions at each network node

E. Integrated Services, where the user, with the assistance of the DSCP signaling protocol, reserves the resources end to end before sending the data

Correct Answer: BD

QUESTION 28

Which aspect is a significant disadvantage of containers?

A. Security

B. Time to deploy

C. Inefficiency

D. Reduced operational overhead

E. Resource consumption

Correct Answer: A

QUESTION 29

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

A. Collect RMON poll information for future regression analysis

B. Ensure that all network devices have their clocks synchronized

C. Look at average counters instead of instantaneous counters for inconsistent and bursty KPIs, such as CPU utilization and interface utilization.

D. Collect SNMP poll information for future regression analysis

E. Validate data plane health, application and services availability with synthetic traffic

F. Capture both ingress and egress flow-based packets. While avoiding duplications of flows

Correct Answer: BCD

QUESTION 30

Which two headend router scalability factors should be considered when designing a DMVPN network solution that uses a hub-and-spoke topology? (Choose two.)

A. the required aggregated packet per second



- B. the amount of bandwidth necessary to terminate all the remote tunnels
- C. the routing protocol chosen for the data plane routing
- D. the maximum number of tunnels supported by the headend router
- E. the CPU and memory of the headend router

Correct Answer: AD

QUESTION 31

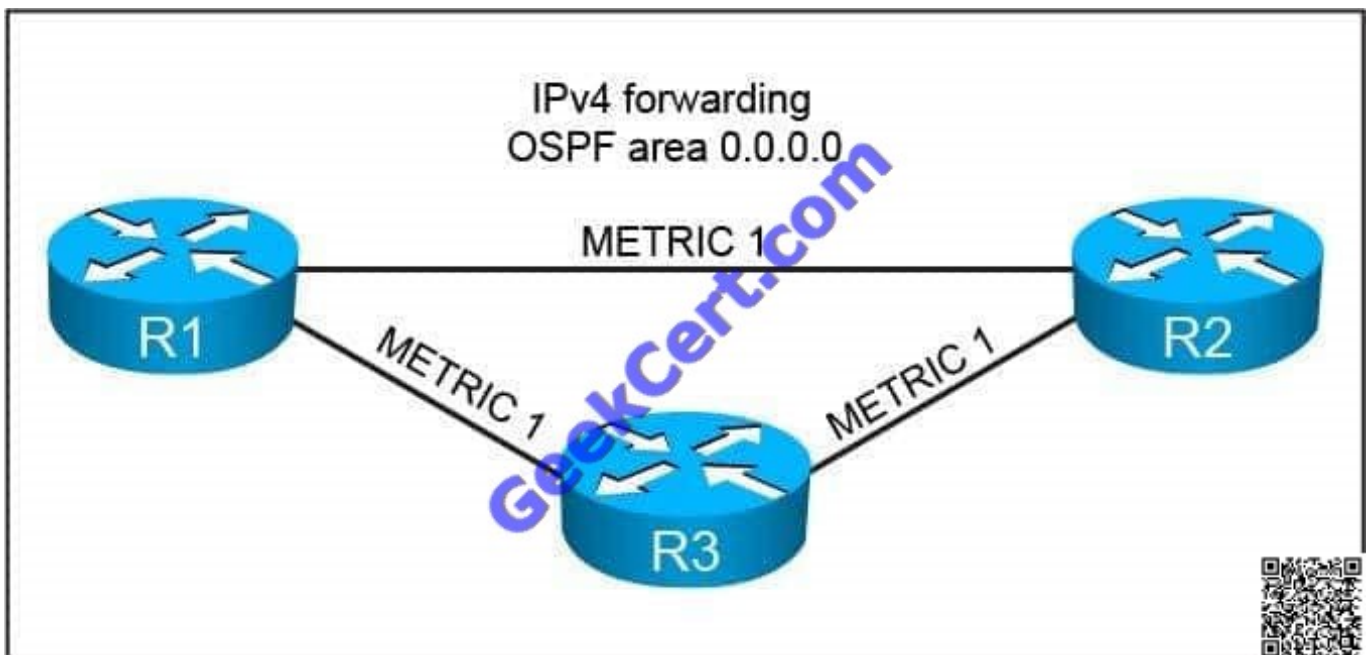
As a service provider you must support a Layer 2 virtualization protocol that does not include the use of label switching. Which option can meet this design requirement?

- A. VPLS
- B. VRF-Lite
- C. QinQ
- D. 802.3ad

Correct Answer: C

QUESTION 32

Refer to the exhibit.





You are asked to design this OSPF network to converge within 60 ms for unicast packets after a topology change due to a single link failure. Which technology can be enabled while conforming to the design requirements?

- A. Loop-Free Alternates
- B. BFD
- C. IGP neighbor timer tuning
- D. IGP SPF timer tuning
- E. RSVP-TE Fast Reroute

Correct Answer: A

QUESTION 33

A DMVPN network is being deployed for 10 branch sites to connect to the central headquarters over the Internet. Each branch site connects to the internet via a 1.5 Mb/s ADSL line, and the headquarters connects to the Internet over a 100Mb/s circuit limited to 20 Mb/s by the service provider.

Which QoS mechanism if any, do you recommend at the headquarters location?

- A. Rate-limiting the 100 Mb/s circuit to 20 Mb/s
- B. Applying hierarchical QoS with parent policy for the overall circuit and child policy for the spokes
- C. Traffic shaping the 100 Mb/s circuit to 20 Mb/s
- D. QoS is not required in this instance due to maximum traffic being received by the branches being 15 Mb/s

Correct Answer: B

QUESTION 34

Which technology allows QoS-marked traffic to be sent over a dedicated link?

- A. traffic policing
- B. MPLS
- C. policy-based routing
- D. Q-in-Q tunneling

Correct Answer: C



QUESTION 35

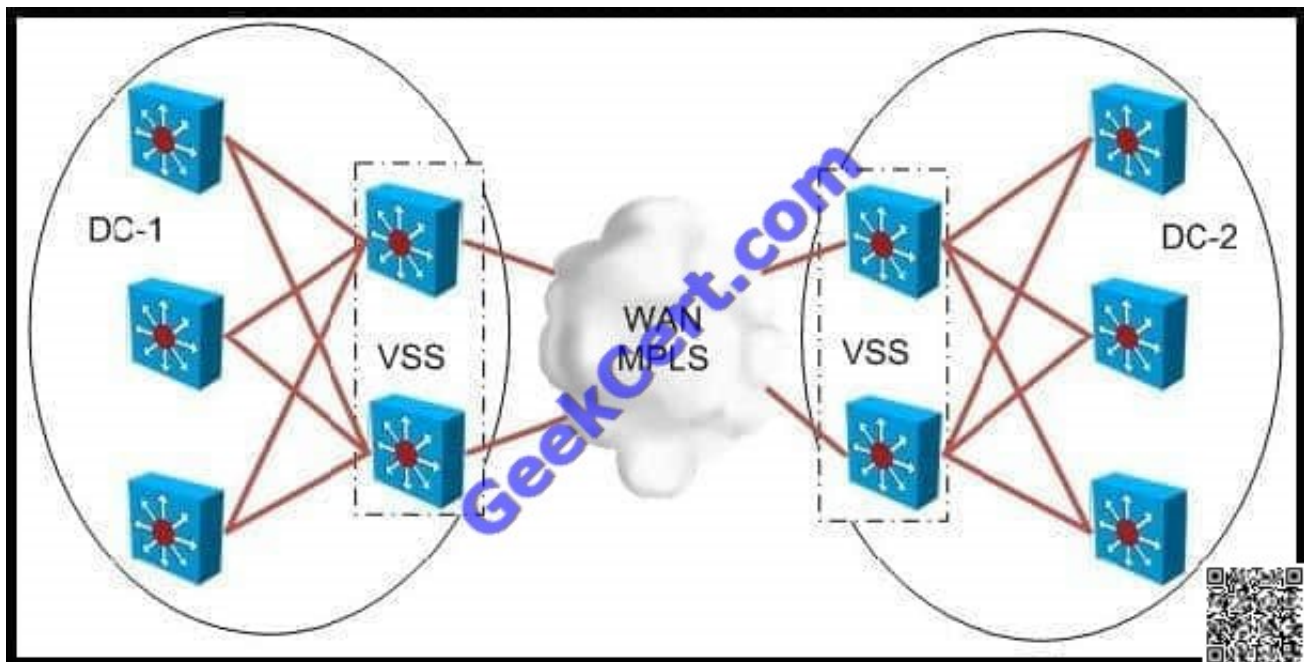
A switched network is being designed to support a manufacturing factory. Due to cost constraints, fiber-based connectivity is not an option. Which design allows for a stable network when there is a risk of interference from the manufacturing hardware in use on the factory floor?

- A. Design the network to include UDLD to detect unidirectional links and take them out of service.
- B. Design the network to include EtherChannel 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 BackboneFast on all devices to accelerate failure convergence times.

Correct Answer: A

QUESTION 36

Refer to the exhibit.



When designing an MPLS-based LAN extension between DC-1 and DC-2, what are three Advantages of deploying VSS? (Choose three.)

- A. Layers 2, 3, and 4 flow-based load balancing
- B. native VSS and MEC failover without using scripts
- C. sub-second failover



- D. required to configure VPLS
- E. failover time depends on Cisco IOS EEM and STP convergence
- F. limited VLAN-based VPLS traffic hashing

Correct Answer: ABC

QUESTION 37

You are a network designer who must fine tune the convergence of an IS-IS network. The failure detection mechanism has been addressed with reliable loss-of-signal at the interface level. Which three other tools or techniques should be employed to achieve your requirements? (Choose three.)

- A. Use prefix prioritization techniques.
- B. Use BFD on point-to-point links.
- C. Speed up LSP generation.
- D. Disable LDP-IGP synchronization.
- E. Speed up the initial link state computation.
- F. Eliminate the time that the overload bit is advertised to neighbors.

Correct Answer: ACE

QUESTION 38

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

Correct Answer: C

QUESTION 39

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

Correct Answer: CD

QUESTION 40

You are designing a solution to eliminate the risk of high CPU utilization on a core network composed of CRS-1 devices. Which option would eliminate the risk of high CPU utilization across the network?

- A. Use Local Packet Transport Services (LPTS) to manage hardware SNMP flow rate.
- B. Use the in-band control plane policy feature to reduce the SNMP flow rate.
- C. Use the control plane policy feature and reduce SNMP flow rate.
- D. Use control-plane management-plane in-band and reduce the SNMP flow rate.
- E. Use the control-plane management-plane out-of-band feature to reduce the SNMP flow rate.

Correct Answer: A

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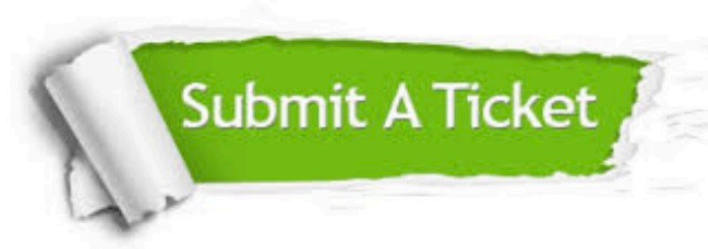
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