

Exam Questions 352-001

CCDE Written Exam

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NEW QUESTION 1

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 2

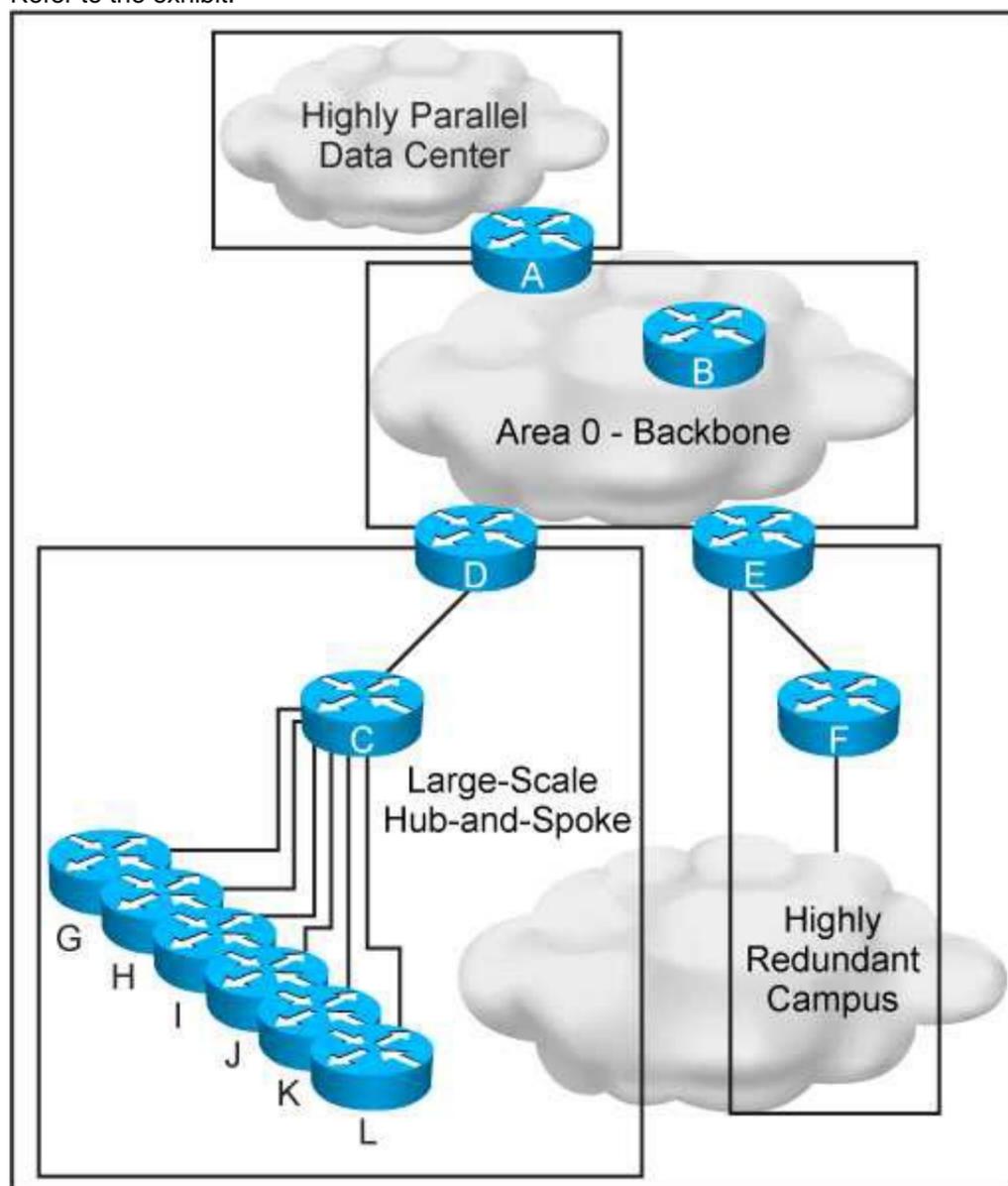
What are two benefits of following a structured hierarchical and modular design? (Choose two.)

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

Answer: AB

NEW QUESTION 3

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 4

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

- A. TCP MSS adjustment

- B. Certificate-based authentication
- C. Transform set
- D. NAT

Answer: D

NEW QUESTION 5

When you design a network that uses IPsec, where can you reduce MTU to avoid network fragmentation?

- A. on both ends of the TCP connection
- B. on the side closest to the client
- C. on the side closest to the server
- D. in the WAN

Answer: A

NEW QUESTION 6

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 7

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 8

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

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

Answer: AE

NEW QUESTION 9

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.

- A. Mastered
- B. Not Mastered

Answer: A

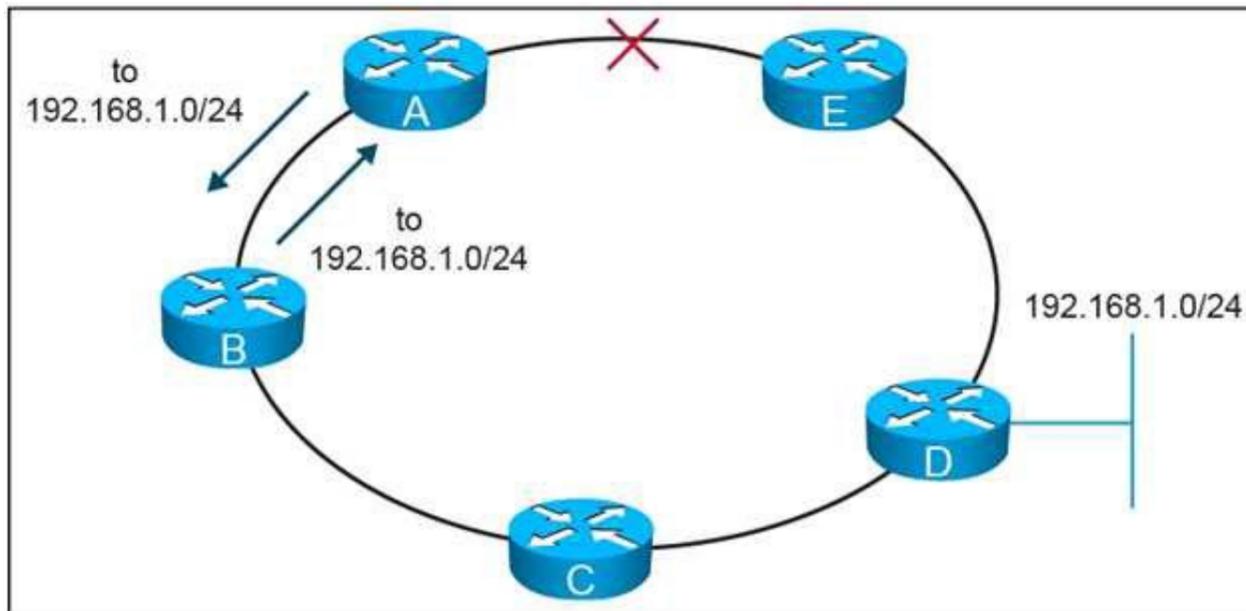
Explanation:

Detection: carrier delay, dead timer

Processing: LSA arrival timer, incremental SPF

NEW QUESTION 10

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 10

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 14

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

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

Answer: CD

NEW QUESTION 16

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 17

A data center provider has designed a network using these requirements

Two data center sites are connected to the public internet

Both data centers are connected to different Internet providers

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

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

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

Answer: AB

NEW QUESTION 22

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 24

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 29

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

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

Answer: AE

NEW QUESTION 32

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 35

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

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

Answer: B

NEW QUESTION 39

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 44

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 49

In an OSPF network, users in a particular OSPF non-backbone area are complaining about slow 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 53

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 57

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

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

Answer: D

NEW QUESTION 58

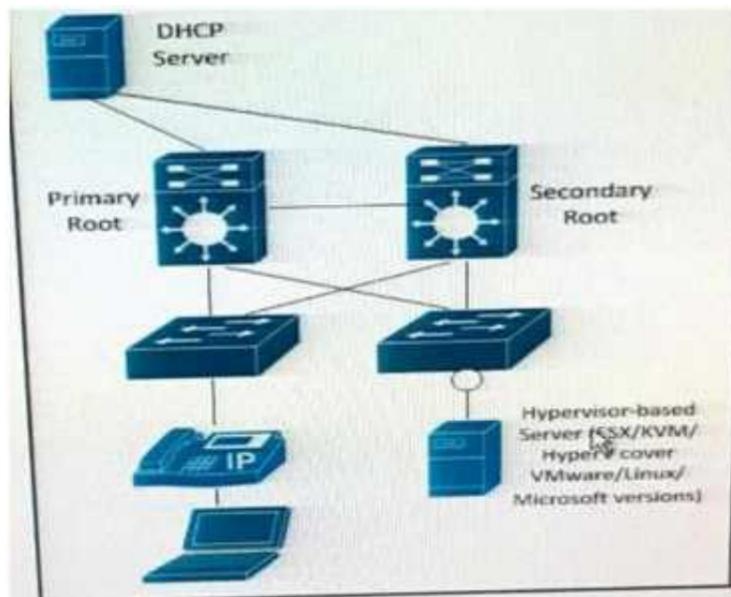
Why is a redundant PIM stub router topology a bad network design decision?

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

Answer: B

NEW QUESTION 60

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 61

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 65

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 68

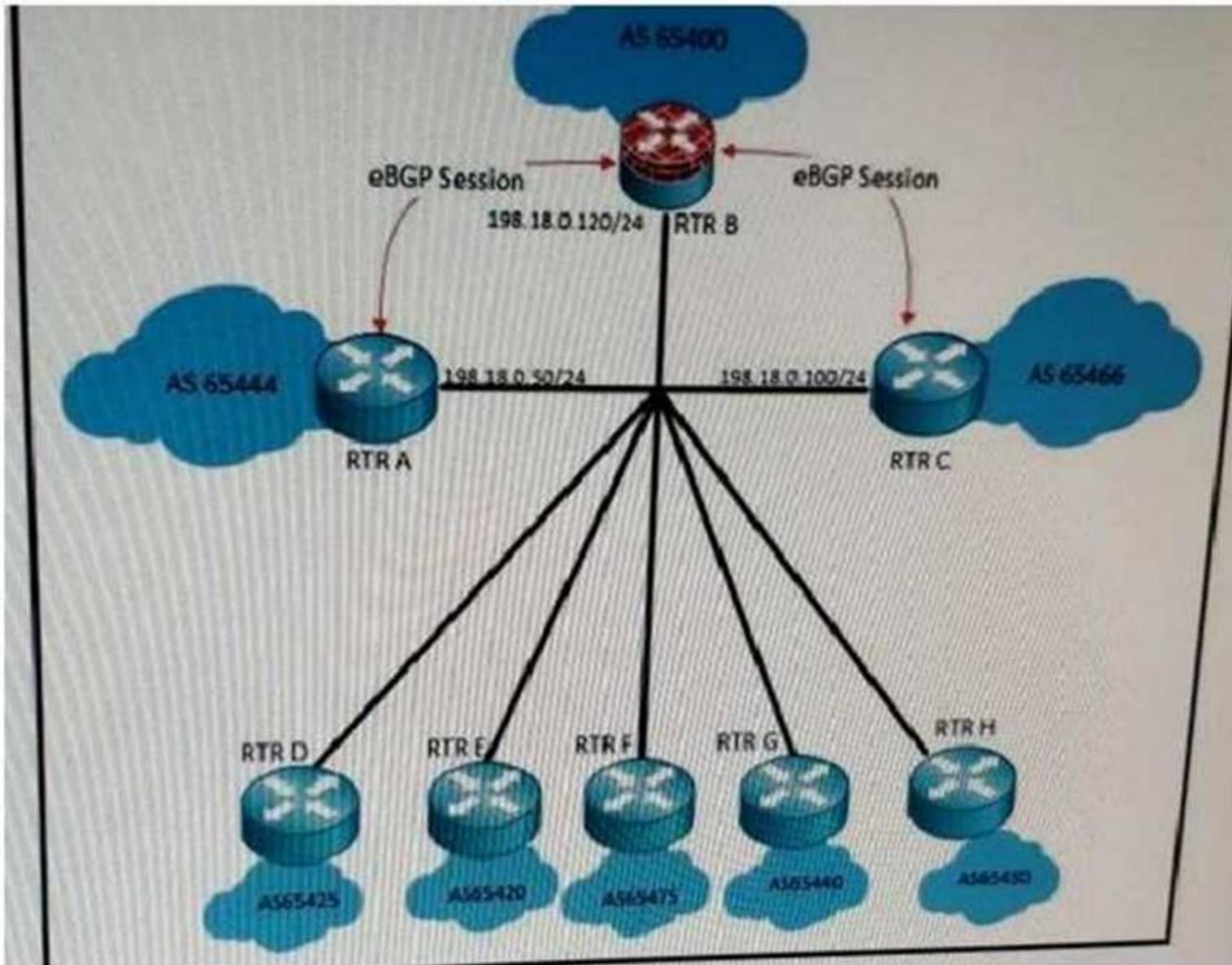
Which option is a critical mechanism to optimize convergence speed when using MPLS FRR?

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

Answer: D

NEW QUESTION 69

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 71

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 74

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 79

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 83

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 I1 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 87

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 90

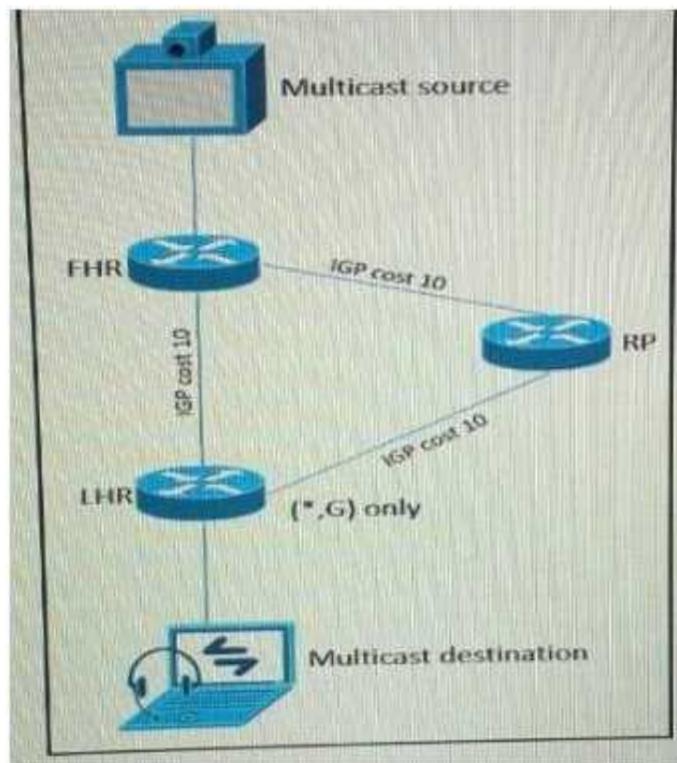
Which two options describe the advantages of using DWDM over traditional optical networks?
 (Choose two)

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

Answer: AE

NEW QUESTION 92

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 96

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 99

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

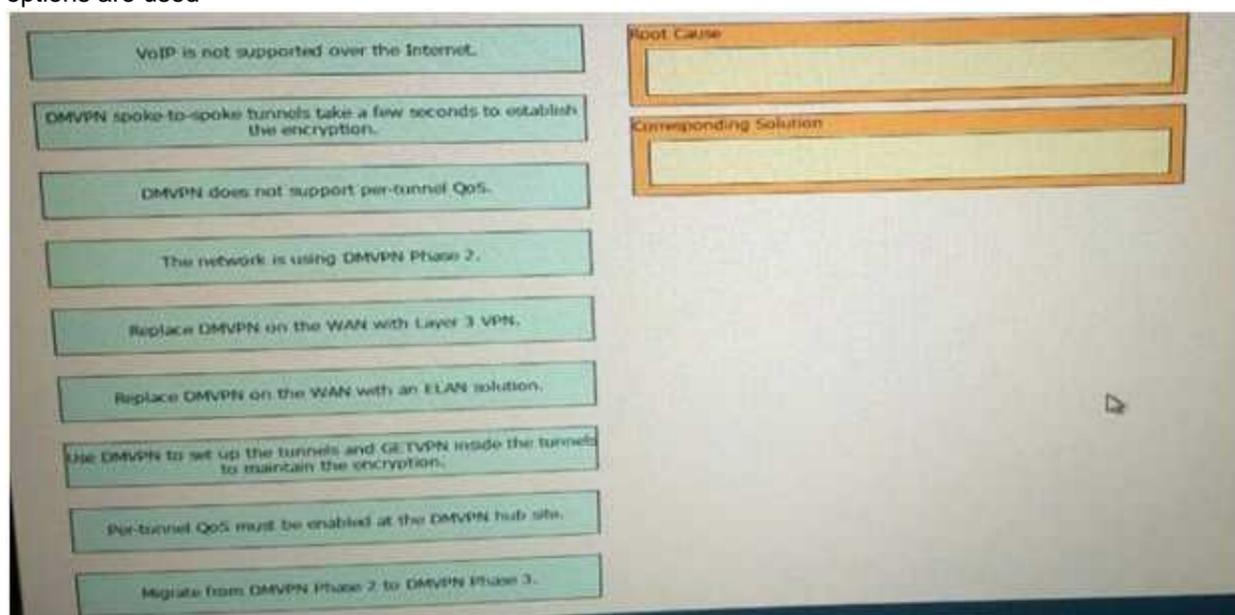
- A. Sports and Fitness
- B. Smart Home
- C. Automotive
- D. Smart Cities
- E. Industrial Automation
- F. Health and wellness

Answer: CE

NEW QUESTION 104

DRAG DROP

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



- 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 105

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 109

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 111

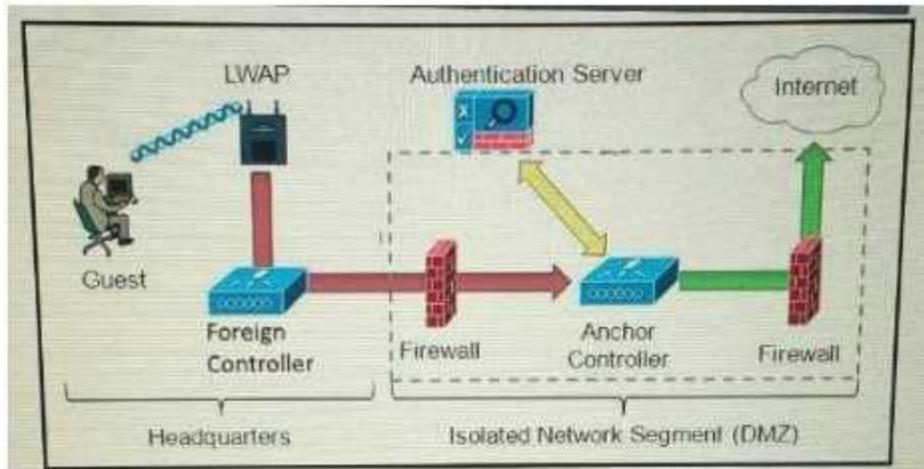
You are reviewing a new data center design for a customer. They chose to leverage a tunnel-based overlay technology for quick deployment and multitenant security. Which design concern can affect the availability across the data center?

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

Answer: B

NEW QUESTION 115

Refer to the exhibit.



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

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

Answer: A

NEW QUESTION 117

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

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

Answer: A

NEW QUESTION 118

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

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

Answer: CD

NEW QUESTION 122

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 126

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

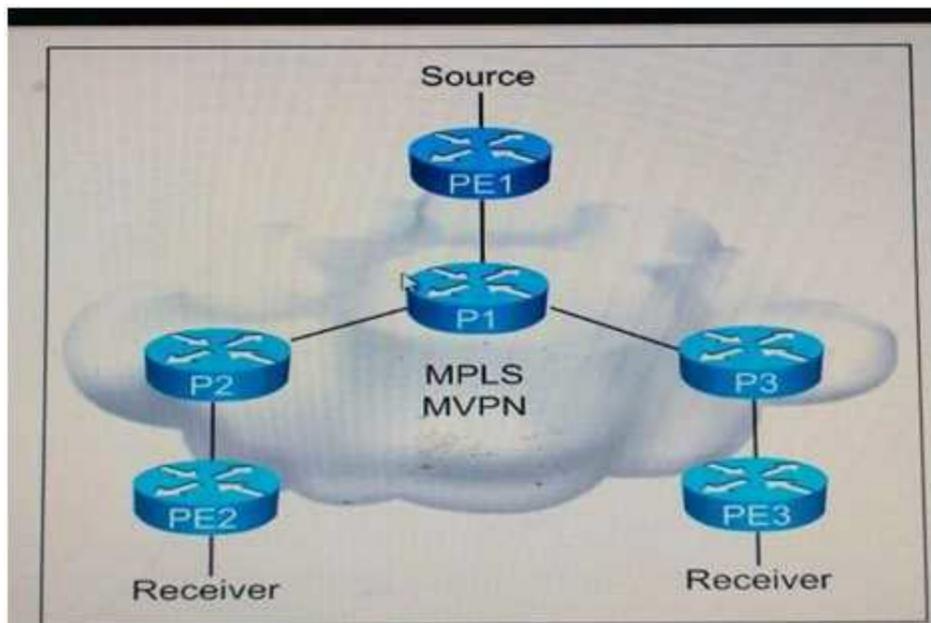
adjacency?

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

Answer: CDF

NEW QUESTION 129

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 131

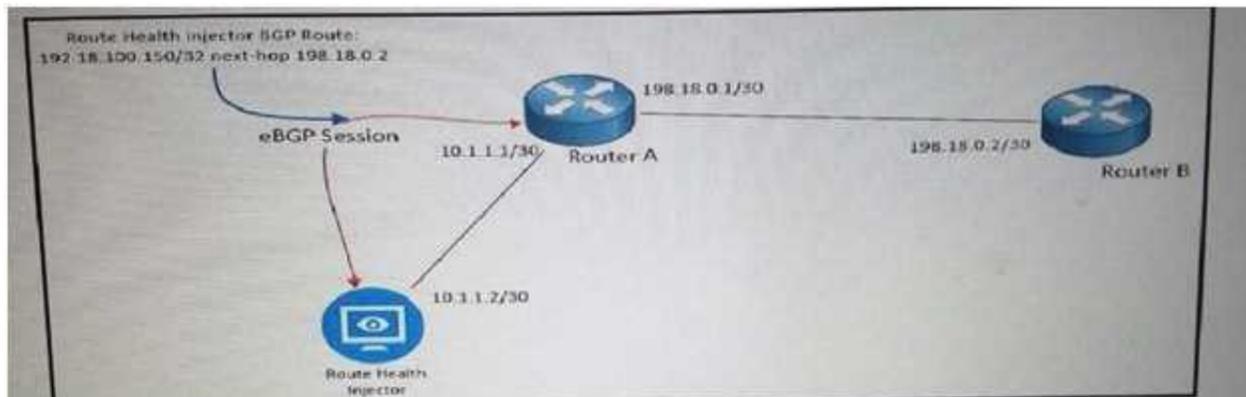
Which mechanism enables small, unmanaged switches to plug into ports of access switches without risking switch loops?

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

Answer: C

NEW QUESTION 133

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 137

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

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

Answer: AE

NEW QUESTION 141

Which open source message broker is in the Cisco Cloud Center?

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

Answer: C

NEW QUESTION 146

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 processed before a forwarding decision is made

Answer: DE

NEW QUESTION 150

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 153

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 156

Which two IoT use cases require the low latency and high reliability that 5G networks provide?

- A. Smart Home
- B. Automotive
- C. Health and Wellness
- D. Smart Cities
- E. Sports and Fitness

Answer: BC

NEW QUESTION 159

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 164

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 167

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 171

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 173

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 174

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 179

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

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

Answer: B

NEW QUESTION 180

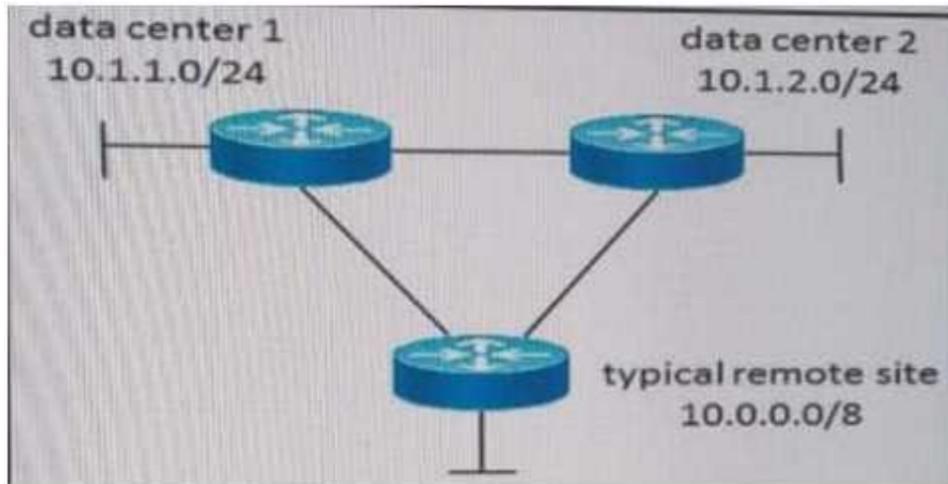
A network design engineer is designing a new storage area network that combines multiple separate legacy SAN environments within a data center. Which technology isolates events within one of the SAN environment from the others?

- A. FCIP tunnels
- B. N-port ID Virtualization
- C. N-Port Virtualization
- D. Virtual SANs

Answer: D

NEW QUESTION 184

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 185

DRAG DROP

A service provider offers Layer 2 multipoint services to their customers. Drag the protocol on the left to the target on the right to indicate the protocols that can be used to signal pseudowires.

LDP	Protocols
RSVP	
BGP	
L2TPv3	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Protocols
LDP
BGP

NEW QUESTION 189

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.

- Spanning-tree priority changed from default
- DTP
- VTP set to transparent
- BPDU Guard
- PortFast
- Root Guard

Prevents changing the root bridge

- Target 1
- Target 2
- Target 3

Prevents advertisement of unwanted VLANs

- Target 4

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Prevents changing the root bridge

- Spanning-tree priority changed from default
- BPDU Guard
- Root Guard

Prevents advertisement of unwanted VLANs

- VTP set to transparent

NEW QUESTION 192

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