Exam Questions 400-007

Cisco Certified Design Expert (CCDE v3.0) Written Exam

https://www.2passeasy.com/dumps/400-007/

NEW QUESTION 1
SDWAN networks capitalize the usage of broadband Internet links over traditional MPLS links to offer more cost benefits to enterprise customers. However, due to the insecure nature of the public Internet, it is mandatory to use encryption of traffic between any two SDWAN edge devices installed behind NAT gateways. Which overlay method can provide optimal transport over unreliable underlay networks that are behind NAT gateways?

A. TLS
B. DTLS
C. IPsec
D. GRE

Answer: C

NEW QUESTION 2
Which best practice ensures data security in the private cloud?

A. Use IPsec for communication between unsecured network connection
B. Encrypt data at rest and in transition.
C. Use the same vendor for consistent encryption.
D. Anonymize data ownership to comply with privacy rules.

Answer: B

NEW QUESTION 3
A network attacker exploits application flaws to compromise critical systems in the organization with these objectives:
• Obtain sensitive data and export the data out of the network.
• Compromise developer and administrator credentials to potentially
What is the next step after application discovery is completed in Zero Trust networkings

A. Establish visibility and behavior modeling
B. Enforce policies and microsegmentation.
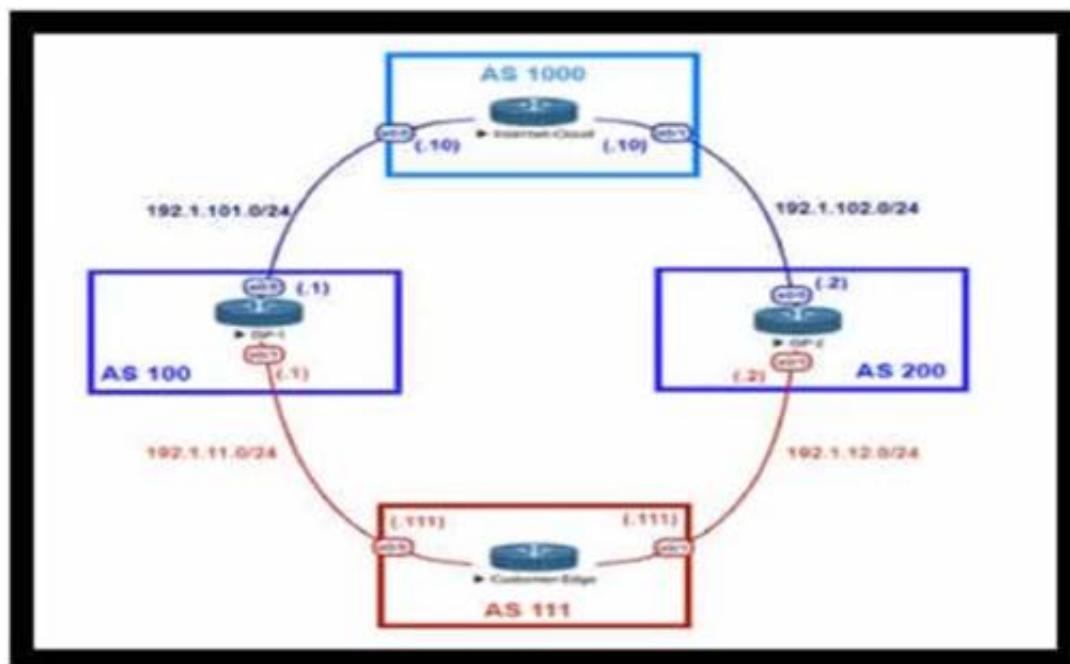C. Assess real-time security health.
D. Ensure trustworthiness of systems.

Answer: B

Explanation:
https://www.cisco.com/c/en/us/solutions/collateral/enterprise/design-zone-security/zt-arch-guide.html

NEW QUESTION 4
Refer to the exhibit.

An engineer is designing the traffic flow for AS 111. Traffic from AS 111 should be preferred via AS 100 for all external routes. A method must be used that only affects AS 111. Which BGP attributes are best suited to control outbound traffic?

A. community
B. MED
C. local preference
D. As path

Answer: C

NEW QUESTION 5
Company XYZ wants to improve the security design of their network to include protection from reconnaissance and DoS attacks on their sub interfaces destined toward next hop routers. Which technology can be used to prevent these types of attacks?

A. MPP
B. CPPr
C. CoPP

D. DPP

Answer: B

Explanation:
https://learningnetwork.cisco.com/s/question/0D53i00000KsuyvCAB/copp-vs-cppr

NEW QUESTION 6
Refer to the table.

CONNECTIVITY	CAPEX	OPEX ANNUAL	INSTALLATION FEE	TERM
DWDM over dark fiber	$250,000	$100,000	$30,000	12 months
CWDM over dark fiber	$150,000	$100,000	$25,000	18 months
MPLS wires only	$50,000	$80,000	$5,000	24 months
Metro Ethernet	$45,000	$100,000	$5,000	36 months

A customer investigates connectivity options for a DCI between two production data centers to aid a
large-scale migration project. The solution must provide a single 10G connection between locations and be able to run its own varying QoS profiles without service provider interaction based on the migration stages. All connectivity methods are at 10 Gbps. Which transport technology costs the least if the connectivity is required for just one year?

A. MPLS wires only
B. CWDM over dark fiber
C. DWDM over dark fiber
D. Metro Ethernet

Answer: A

NEW QUESTION 7
What statement describes the application layer as defined in the software-defined networking architecture?

A. This layer is responsible for collecting the network status such as network usage and topology.
B. This layer contains programs that communicate their desired network behavior to controllers.
C. This layer is responsible for handling packets based on the rules provided by the controller.
D. This layer processes the instructions and requirements sent by networking components.

Answer: B

NEW QUESTION 8
You were tasked to enhance the security of a network with these characteristics:
• A pool of servers is accessed by numerous data centers and remote sites
• The servers are accessed via a cluster of firewalls
• The firewalls are configured properly and are not dropping traffic
• The firewalls occasionally cause asymmetric routing of traffic within the server data center.
Which technology should you recommend to enhance security by limiting traffic that could originate from a hacker compromising a workstation and redirecting flows at the servers?

A. Poison certain subnets by adding static routes to Null0 on the core switches connected to the pool of servers.
B. Deploy uRPF strict mode.
C. Limit sources of traffic that exit the server-facing interface of the firewall cluster with ACLs.
D. Deploy uRPF loose mode

Answer: C

NEW QUESTION 9
Which two pain points are the most common for container technology adoption? (Choose two)

A. Performance
B. Security
C. Cost
D. Container deployment
E. Skilled staff
F. Compliance

Answer: DE

NEW QUESTION 10
Which purpose of a dynamically created tunnel interface on the design of IPv6 multicast services Is true?

A. first-hop router registration to the RP
B. multicast client registration to the RP
C. multicast source registration to the RP
D. transport of all IPv6 multicast traffic

Answer: D

NEW QUESTION 10
Which two characteristics are associated with 802 1s? (Choose two)

A. 802.1s supports up to 1024 instances of 802.1
B. 802.1 s is a Cisco enhancement to 802.1w.
C. 802.1s provides for faster convergence over 802 1D and PVST+.
D. CPU and memory requirements are the highest of all spanning-tree STP implementations.
E. 802.1s maps multiple VLANs to the same spanning-tree instance

Answer: CE

NEW QUESTION 14
Which two actions must be taken when assessing an existing wireless network implementation for its readiness to support voice traffic? (Choose two.)

A. Check for high roaming delay.
B. Check for uniform radio coverage across the floors.
C. Check for high channel utilization.
D. Check for latency over wireless.
E. Identify frequent TX power changes.

Answer: AC

Explanation:
https://community.cisco.com/t5/wireless/channel-utilization/td-p/2716667

NEW QUESTION 16
Company XYZ is in the process of identifying which transport mechanism(s) to use as their WAN technology. Their main two requirements are.
• a technology that could offer DPI, SLA, secure tunnels, privacy, QoS, scalability, reliability, and ease of management
• a technology that is cost-effective
Which WAN technology(ies) should be included in the design of company XYZ?

A. Software-defined WAN should be the preferred choice because it complements both technologies, covers all the required features, and it is the most cost-effective solution.
B. Internet should be the preferred option because it is cost effective and supports BFD, IP SL
C. and IPsec for secure transport over the public Internet.
D. Both technologies should be use
E. Each should be used to back up the other one; where the primary links are MPLS, the internet should be used as a backup link with IPsec (and vice versa).
F. MPLS meets all these requirements and it is more reliable than using the Interne
G. It is widely used with defined best practices and an industry standard.

**Answer:** A

NEW QUESTION 21
Refer to the exhibit.
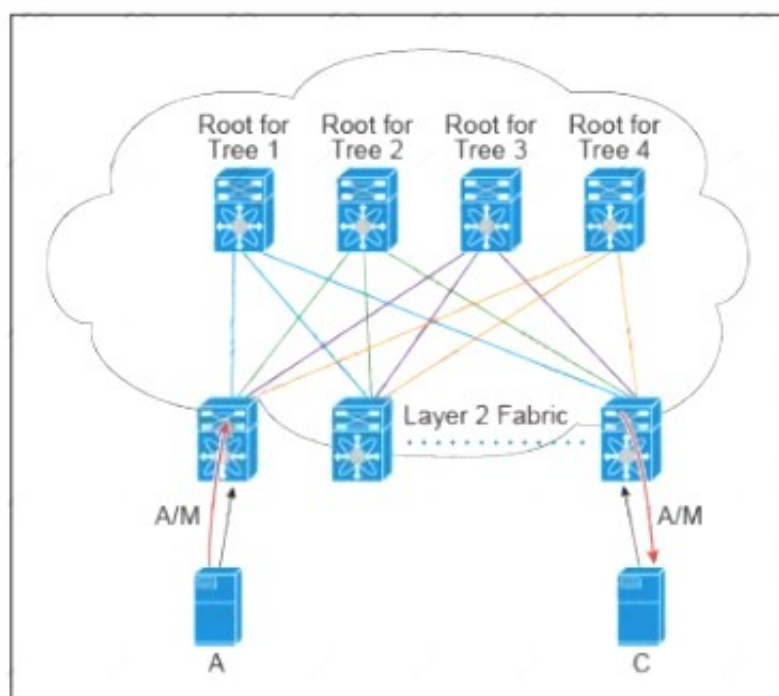
There are multiple trees in the Cisco FabricPath All switches in the Layer 2 fabric share the same view of each tree. Which two concepts describe how the multicast traffic is load-balanced across this topology? (Choose two)

A. A specific (S.G) traffic is not load-balanced
B. All trees are utilized at the same level of the traffic rate
C. Every leaf node assigns the specific (S.G) to the same tree.
D. A specific (S.G) multicast traffic is load-balanced across all trees due to better link utilization efficiency.
E. The multicast traffic is generally load-balanced across all trees

Answer: BD

NEW QUESTION 25
Refer to the exhibit.
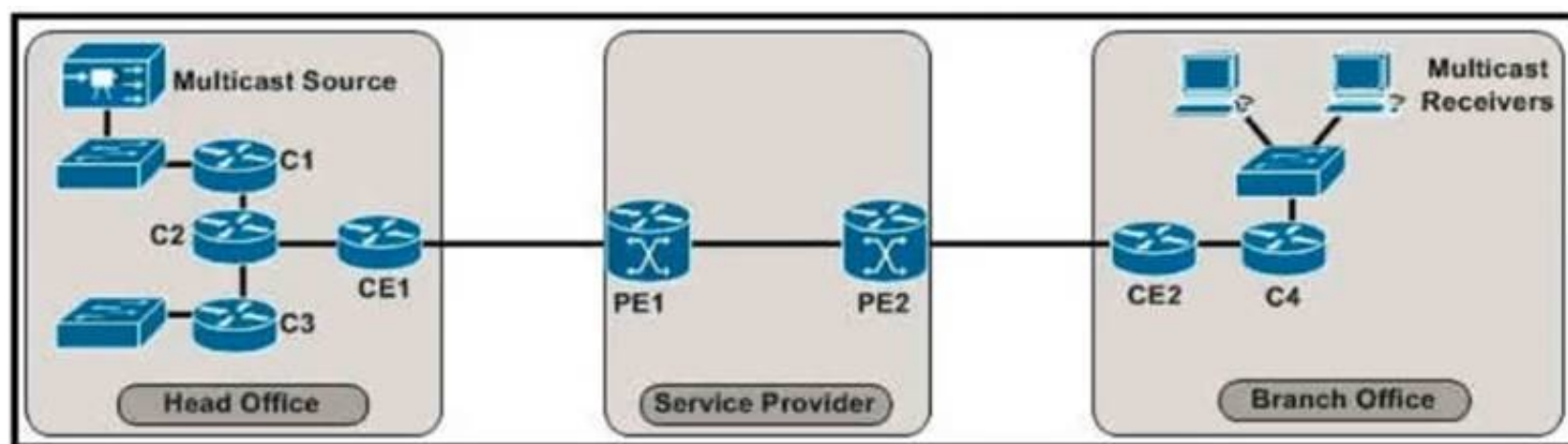
The enterprise customer wants to stream one-way video from their head office to eight branch offices using multicast. Their current service provider provides a Layer3 VPN solution and manages the CE routers, but they do not currently support multicast. Which solution quickly allows this multicast traffic to go through while allowing for future scalability?

A. Enable a GRE tunnel between nodes CE1 and CE2
B. Enable a GRE tunnel between nodes C2 and C4
C. Enable a GRE tunnel between nodes C1 and C4
D. Implement hub and spoke MPLS VPN over DMVPN (also known as 2547o DMVPN) between CE1 and CE2
E. The service provider must provide a Draft Rosen solution to enable a GRE tunnel between nodes PE1 and PE2

Answer: B

NEW QUESTION 30
Which BGP feature provides fast convergence?

A. BGP PIC |
B. BGP-EVPN
C. BGP FlowSpec
D. BGP-LS

Answer: A

NEW QUESTION 34
Company XYZ has a new network based on IPv6. Some of the subnets that they are planning to use will be confidential and need an addressing scheme that confines them to the local campus network. Which type of IPv6 addresses can be used for these networks in the IPv6 addressing design?

A. local addresses
B. private addresses
C. link-local addresses
D. unique local addresses

Answer: D

NEW QUESTION 35
What is a disadvantage of the traditional three-tier architecture model when east west traffic between different pods must go through the distribution and core layers?

A. low bandwidth
B. securityC scalability
C. high latency

Answer: A

NEW QUESTION 36
SDN emerged as a technology trend that attracted many industries to move from traditional networks to SDN. Which challenge is solved by SDN for cloud service providers?

A. need for intelligent traffic monitoring
B. exponential growth of resource-intensive application
C. complex and distributed management flow
D. higher operating expense and capital expenditure

Answer: B

NEW QUESTION 39
You are designing a network for a branch office. In order to improve convergence time, you are required to use the BFD feature Which four routing protocols can you use to facilitate this? (Choose four.)

A. IS-IS
B. static
C. RIP
D. EIGRP

E. BGP

Answer: ABDE

NEW QUESTION 40
Which extensions to GRE tunneling provide session tracking and in-order packet delivery in exchange for additional state stored in tunnel endpoints?

A. GRE Protocol Type and Checksum extension fields.
B. GRE Version and Reserved0 extension fields.
C. No extension fields are available in the GRE header to track session data and packet sequences.
D. GRE Key and Sequence number extensions.

Answer: D

NEW QUESTION 43
Company XYZ has 30 sites running a legacy private WAN architecture that connects to the Internet via multiple high- speed connections The company is now redesigning their network and must comply with these design requirements :
≫ Use a private WAN strategy that allows the sites to connect to each other directly and caters for future expansion.
≫ Use the Internet as the underlay for the private WAN.
≫ Securely transfer the corporate data over the private WAN.
Which two technologies should be Incorporated into the design of this network? (Choose two.)

A. S-VTI
B. IPsec
C. DMVPN
D. GET VPN
E. PPTP

Answer: BC

NEW QUESTION 45
When designing a WAN that will be carrying real-time traffic, what are two important reasons to consider serialization delay? (Choose two)

A. Serialization delays are invariable because they depend only on the line rate of the interface
B. Serialization delays are variable because they depend on the line rate of the interface and on the type of the packet being serialized.
C. Serialization delay is the time required to transmit the packet on the physical media.
D. Serialization delays are variable because they depend only on the size of the packet being serialized
E. Serialization delay depends not only on the line rate of the interface but also on the size of the packet

Answer: BD

NEW QUESTION 48
A company uses equipment from multiple vendors in a data center fabric to deliver SDN, enable maximum flexibility, and provide the best return on investment. Which YANG data model should be adopted for comprehensive features to simplify and streamline automation for the SDN fabric?

A. proprietary
B. OpenConfig
C. native
D. IETF

Answer: B

NEW QUESTION 52
What best describes the difference between Automation and Orchestration?

A. Automation refers to an automatic process for completing a single task and Orchestration refers to assembling and coordinating a set of tasks and conditions.
B. Automation describes a hands-off configuration process while Orchestration refers to sets of automation tasks that require the network administrator to coordinate
C. Automation refers to an automatic process for completing multiple tasks with conditions and Orchestration refers to executing tasks in parallel.
D. Automation refers to scripting languages (Pytho
E. Ansible etc.) and Orchestration refers to commercial products that control configuration deployment

Answer: A

NEW QUESTION 56
A business requirement stating that failure of WAN access for dual circuits into an MPLS provider for a Data Centre cannot happen due to related service credits that would need to be paid has led to diversely routed circuits to different points of presence on the providers network? What should a network designer also consider as part of the requirement?

A. Provision of an additional MPLS provider
B. Out of band access to the MPLS routers
C. Ensuring all related remote branches are dual homed to the MPLS network
D. Dual PSUs & Supervisors on each MPLS router

Answer: A

NEW QUESTION 59
An engineer is designing the QoS strategy for Company XYZ. Based on initial analysis, a lot of scavenger type of traffic is traversing the network's 20Mb Internet link toward the service provider. The new design must use a QoS technique that limits scavenger traffic to 2 Mbps, which helps avoid oversubscription of the link during times of congestion. Which QoS technique can be used to facilitate this requirement?

A. class-based traffic policing
B. LLQ
C. CBWFQ
D. class-based traffic shaping

Answer: C

NEW QUESTION 62
Identity and access management between multiple users and multiple applications has become a mandatory requirement for Company XYZ to fight against ever increasing cybersecurity threats. To achieve this, federated identity services have been deployed in the Company XYZ network to provide single sign-on and Multi-Factor Authentication for the applications and services. Which protocol can be used by Company XYZ to provide authentication and authorization services?

A. OAuth2
B. OpenID Connect
C. OpenID
D. SAML2.0

Answer: D

NEW QUESTION 65
Hybrid cloud computing allows organizations to like advantage of public and private cloud models Which best practice should organizations follow to ensure data security in the private cloud?

A. Use standard protocols for data transmission over the network.
B. Encrypt data when it is at rest and in motion
C. Communicate all data security risks to customers and end users.
D. Use standard network protocols for data communication between unsecured network connections.

Answer: B

NEW QUESTION 70
Company XYZ has 30 sites using MPLS L3 VPN and the company is now concerned about data integrity. The company wants to redesign the security aspect of their network based on these requirements:
• Securely transfer the corporate data over the private WAN
• Use a centralized configuration model.
• Minimize overhead on the tunneled traffic.
Which technology can be used in the new design to meet the company's requirements?

A. S-VTI
B. DMVPN
C. MGRE
D. GET VPN

Answer: D

NEW QUESTION 73
A healthcare customer requested that SNMP traps must be sent over the MPLS Layer 3 VPN service. Which protocol must be enabled?

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

Answer: A

NEW QUESTION 74
A small organization of 20 employees is looking to deliver a network design service for modernizing customer networks to support advanced solutions.
⤳ Project scope and weekly progress should be visualized by the management.
⤳ Always consider feedback and make changes accordingly during the project.
⤳ Should consider flexibility to change scope at the point of time.
Which project methodology meets the requirements and have the least impact on the outcome?

A. Scrum
B. LEAN
C. Kanban
D. Six-Sigma

Answer: A

Explanation:
https://firebrand.training/uk/blog/scrum-vs-six-sigma-which-one-is-right-for-you

NEW QUESTION 78
Which two data plane hardening techniques are true? (Choose two)

A. warning banners
B. redundant AAA servers
C. Control Plane Policing
D. SNMPv3
E. infrastructure ACLs
F. disable unused services
G. routing protocol authentication

Answer: EF

NEW QUESTION 79
Company XYZ is planning to deploy primary and secondary (disaster recovery) data center sites. Each of these sites will have redundant SAN fabrics and data protection is expected between the data center sites. The sites are 100 miles (160 km) apart and target RPO/RTO are 3 hrs and 24 hrs, respectively. Which two considerations must Company XYZ bear in mind when deploying replication in their scenario? (Choose two.)

A. Target RPO/RTO requirements cannot be met due to the one-way delay introduced by the distance between sites.
B. VSANs must be routed between sites to isolate fault domains and increase overall availability.
C. Synchronous data replication must be used to meet the business requirements
D. Asynchronous data replication should be used in this scenario to avoid performance impact in the primary site.
E. VSANs must be extended from the primary to the secondary site to improve performance and availability.

Answer: CD

Explanation:
synchronous data replication must be used to meet the business requirements, is incorrect. As described above, asynchronous replication would be a better choice in this scenario due to the distance between the data center sites and the target RPO/RTO requirements.
asynchronous data replication should be used in this scenario to avoid performance impact in the primary site, is correct. Asynchronous replication would allow Company XYZ to meet the target RPO/RTO requirements while avoiding the performance impact of synchronous replication.

NEW QUESTION 83
Refer to the exhibit.
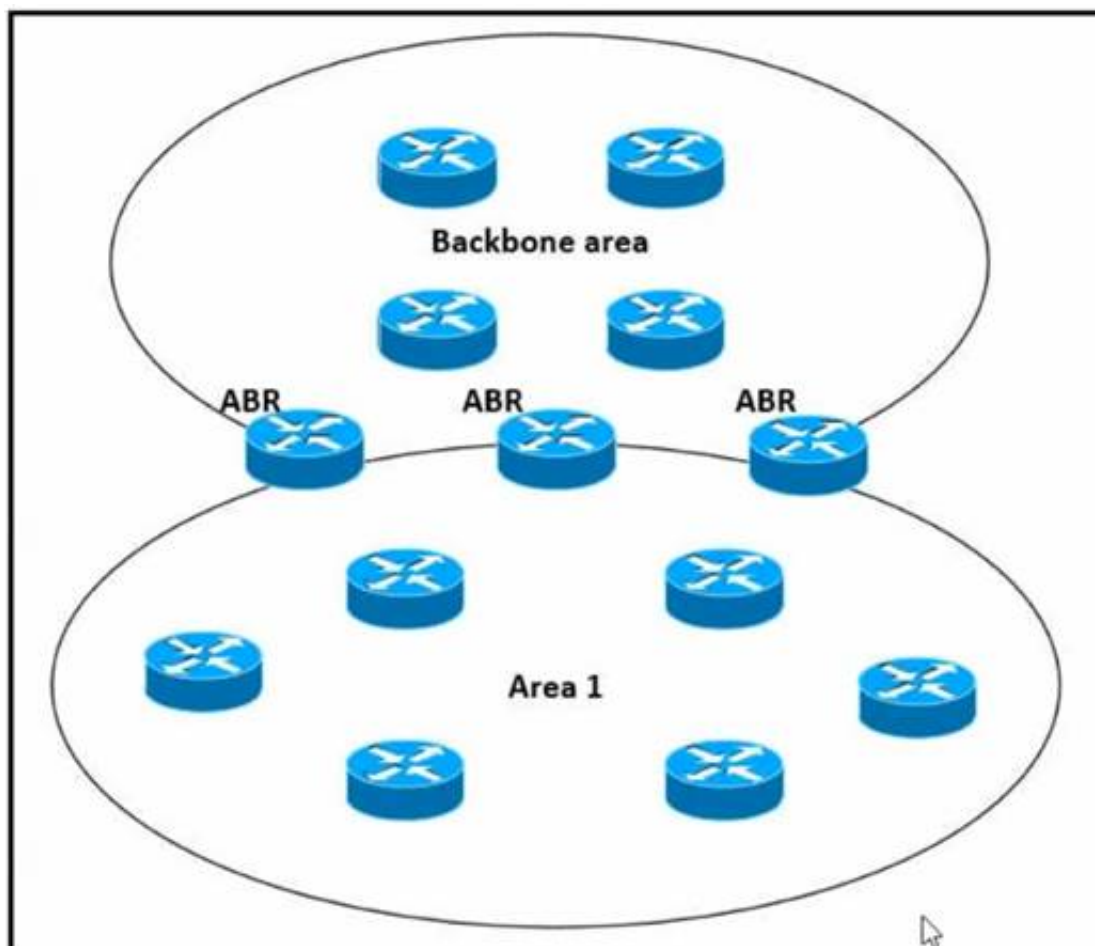
Which impact of using three or more ABRs between the backbone area and area 1 is true?

A. In a large-scale network LSA replication by all ABRs can cause serious scalability issues
B. Multiple ABRs reduce the CPU processing on each A6R due to splitting prefix advertisement
C. In a large-scale network multiple ABRs can create microloops.
D. Prefixes from the non-backbone area are advertised by one ABR to the backbone

Answer: A

NEW QUESTION 87
Refer to the diagram.
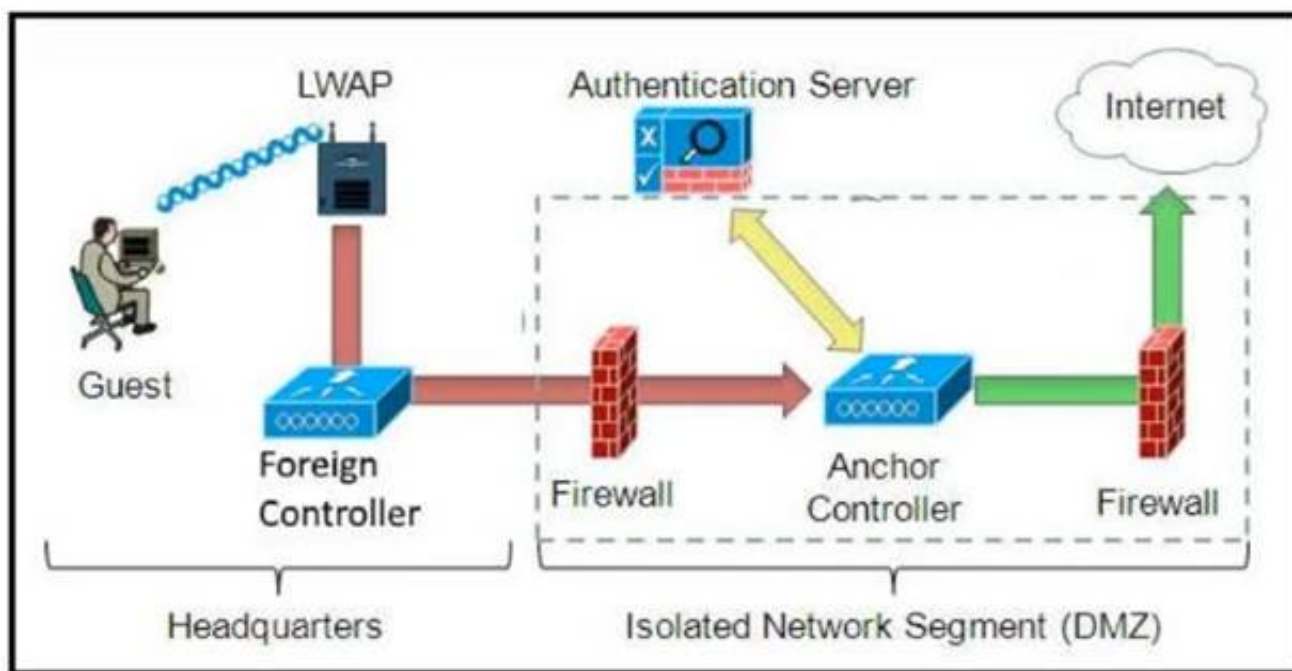
Which solution must be used to send traffic from the foreign wireless LAN controller to the anchor wireless LAN controller?

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

Answer: C

NEW QUESTION 91
A European national bank considers migrating its on-premises systems to a private cloud offering in a non-European location to significantly reduce IT costs. What is a primary factor prior to migration?

A. data governance
B. additional latency
C. security
D. cloud connectivity

Answer: A

NEW QUESTION 96
While designing a switched topology, in which two options is UplinkFast recommended? (Choose two)

A. when switches of different spanning-tree types are connected (for exampl
B. 802.1d connecting to 802.1w)
C. on distribution layer switches
D. when hello timers are changed to more aggressive values
E. on access layer switches
F. on the core switches

Answer: AD

NEW QUESTION 100
Company XYZ Is running a redundant private WAN network using OSPF as the underlay protocol The current design accommodates for redundancy In the network, but it Is taking over 30 seconds for the network to reconverge upon failure Which technique can be Implemented In the design to detect such a failure in a subsecond?

A. STP
B. fate sharing
C. OSPF LFA
D. BFD
E. flex links

Answer: D

NEW QUESTION 105
An external edge router provides connectivity from a service provider to an enterprise Which two Internet edge best practices meet compliance regulations'? (Choose two)

A. Implement filtenng to control traffic that is sourced from the infrastructure IP space.
B. Enable and use only secure protocols.
C. Send logs to a centralized logging collection server.
D. Implement EBGP to advertise all owned IP blocks.
E. Use login banners and interface access lists to restrict administrative access to the system

Answer: BE

NEW QUESTION 109

What is a web-based model in which a third-party provider hosts applications that are available to customers over the Internet?

A. PaaS
B. SaaS
C. IaaS
D. WaaS

Answer: B

NEW QUESTION 112
A network security team observes phishing attacks on a user machine from a remote location. The organization has a policy of saving confidential data on two different systems using different types of authentication. What is the next step to control such events after the security team verifies all users in Zero Trust modeling?

A. Enforce risk-based and adaptive access policies.
B. Assess real-time security health of devices.
C. Apply a context-based network access control policy for users.
D. Ensure trustworthiness of devices.

Answer: B

NEW QUESTION 114
As a network designer you need to support an enterprise with hundreds of remote sites connected over a single WAN network that carries different types of traffic, including VoIP, video, and data applications which of following design considerations will not impact design decision?

A. Focus on the solution instead of the problem, which helps to reduce downtime duration
B. The location of the data collection
C. What direction the data or flows should be metered
D. Identify traffic types and top talkers over this link

Answer: A

NEW QUESTION 118
Company XYZ is migrating their existing network to IPv6 and they must plan for Layer 2 and Layer 3 devices Some of the access layer switches do not support IPv6, however, core and distribution switches fully support unicast and multicast routing. The company wants to minimize cost of the migration. Which migration strategy should be used in the design?

A. The access layer switches must support IGMP snooping at a minimu
B. Any switches that do not support IGM snooping must be replaced.
C. Upgrade the nonsupporting switches Otherwise, it will cause an issue with the migration.
D. Layer 2 switches will not affect the implementation of IPv6. They can be included in the design in their current state.
E. The access layer switches must support DHCPv6. Any switches that do not support DHCPv6 must be replaced.

Answer: C

NEW QUESTION 120
An architect prepares a network design for a startup company. The design must be able to meet business requirements while the business grows and divests due to rapidly changing markets. What is the highest priority in this design?

A. The network should be hierarchical
B. The network should be modular.
C. The network should be scalable.
D. The network should have a dedicated core.

Answer: A

NEW QUESTION 121
What is a description of a control plane action?

A. de-encapsulating and re-encapsulating a packet in a data-link frame
B. matching the destination MAC address of an Ethernet frame to the MAC address table
C. matching the destination IP address of an IP packet to the IP routing table
D. hosts locating routers that reside on attached links using the IPv6 Neighbor Discover Protocol

Answer: D

NEW QUESTION 126
Which effect of using ingress filtering to prevent spoofed addresses on a network design is true?

A. It reduces the effectiveness of DDoS attacks when associated with DSCP remarking to Scavenger.
B. It protects the network Infrastructure against spoofed DDoS attacks.
C. It Classifies bogon traffic and remarks it with DSCP bulk.
D. It filters RFC 1918 IP addresses.

Answer: B

NEW QUESTION 129
You are using iSCSI to transfer files between a 10 Gigabit Ethernet storage system and a 1 Gigabit Ethernet server The performance is only approximately 700 Mbps and output drops are occurring on the server switch port. Which action will improve performance in a cost-effective manner?

A. Change the protocol to CIFS.
B. Increase the queue to at least 1 GB
C. Use a WRED random drop policy
D. Enable the TCP Nagle algorithm on the receiver

Answer: A

NEW QUESTION 131
You are designing a large-scale DMVPN network with more than 500 spokes using EIGRP as the IGP protocol Which design option eliminates potential tunnel down events on the spoke routers due to the holding time expiration?

A. Increase the hold queue on the physical interface of the hub router.
B. Increase the hold queue on the tunnel interface of the spoke routers
C. Increase the hold queue on the tunnel interface of the hub router
D. Apply QoS for pak_priority class
E. Increase the hold queue on the physical interface of the spoke routers.

Answer: C

NEW QUESTION 136
Company XYZ branch offices connect to the headquarter sites using two links, MPLS and Internet. The company wants to design the traffic flow so that voice traffic goes through the MPLS link and all other traffic uses either the MPLS link or the Internet link. Which technique can the company use in their design to ensure that the traffic is not process switched?

A. policy-based routing
B. virtual links
C. visualization
D. floating static route

Answer: A

NEW QUESTION 141
Which two control plane policer designs must be considered to achieve high availability? (Choose two.)

A. Control plane policers are enforced in hardware to protect the software path, but they are hardware platform dependent in terms of classification ability.
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 must be processed before a forwarding decision is made.
E. Control plane policers require that adequate protocols overhead are factored in to allow protocol convergence.

Answer: AD

NEW QUESTION 143
You are tasked to design a QoS policy for a service provider so they can include it in the design of their MPLS core network If the design must support an MPLS network with six classes, and CEs will be managed by the service provider, which QoS policy should be recommended?

A. map IP CoS bits into the IP Precedence field
B. map flow-label bits into the Exp field
C. map IP precedence bits into the DSCP field
D. map DSCP bits into the Exp field

Answer: D

NEW QUESTION 148
An existing wireless network was designed to support data traffic only. You must now install context Aware services for location tracking changes must be applied to the existing wireless network to increase the location accuracy? (Chose two)

A. Add access points along the perimeter of the coverage area.
B. Increase the access point density to create an average inter-access point distance of less than 40 feet or 12.2 meters
C. Use directional antennas to provide more cell overlapping
D. Install additional access points in monitor mode where the co-channel interference would otherwise be affected
E. Fine tune the radio configuration of the access point to have a higher average transmission power to achieve better coverage

Answer: BE

NEW QUESTION 151
An MPLS service provider is offering a standard EoMPLS-based VPLS service to Customer A. providing Layer 2 connectivity between a central site and approximately 100 remote sites. Customer A wants to use the VPLS network to carry its internal multicast video feeds which are sourced at the central site and consist of 20 groups at Mbps each. Which service provider recommendation offers the most scalability?

A. EoMPLS-based VPLS can carry multicast traffic in a scalable manner
B. Use a mesh of GRE tunnels to carry the streams between sites
C. Enable snooping mechanisms on the provider PE routers.

D. Replace VPLS with a Layer 3 MVPN solution to carry the streams between sites

Answer: D

NEW QUESTION 155
A network architect in an enterprise is designing a network policy for certain database applications. The goal of the policy is to allow these applications to access the internet directly, whereas other user and network applications that communicate with systems or users outside their own network must be routed through the data center. The focus is on achieving higher availability and a better user experience for the database applications, but switching between different network paths based on performance characteristics must be supported.
Which solution meets these requirements?

A. MPLS L3VPN with QoS
B. Cloud onRamp for IaaS
C. Cloud onRamp for SaaS
D. MPLS direct connect

Answer: C

Explanation:
https://www.cisco.com/c/en/us/solutions/collateral/enterprise-networks/sd-wan/nb-06-cloud-onramp-saas-faq-ct

NEW QUESTION 156
Company XYZ must design a strategy to protect their routers from DoS attacks, such as traffic destined to the router's own route processor, using separate control plane categories. Which two capabilities can be used to achieve this requirement? (Choose two.)

A. Control Plane Protection using queue thresholding on the transit subinterface
B. Control Plane Protection using port filtering on the transit subinterface
C. Control Plane Protection using port filtering on the main interface
D. Control Plane Protection using queue thresholding on the host subinterface
E. Control Plane Protection using port filtering on the host subinterface

Answer: DE

NEW QUESTION 157
Which two aspects are considered when designing a dual hub dual DMVPN cloud topology? (Choose two)

A. will only work with single-tier headend architecture
B. hub sites must connect to both DMVPN clouds
C. recommended for high availability
D. spoke-to-spoke traffic will transit the hub unless spokes exchange dynamic routing directly
E. requires all sites to have dual Internet connections

Answer: AC

NEW QUESTION 158
Which technology is an open-source infrastructure automation tool that automates repetitive tasks for users who work in networks such as cloud provisioning and intraservice orchestration?

A. Ansible
B. Contrail
C. Java
D. Jinja2

Answer: A

NEW QUESTION 162
Company ABC wants to minimize the risk of users plugging unauthorized switches and hubs into the network Which two features can be used on the LAN access ports to support this design requirement? (Choose two.)

A. Loop Guard
B. PortFast
C. DTF
D. Root Guard
E. BPDU Guard

Answer: BE

NEW QUESTION 164
Which network management framework can be used to develop a network architecture that contains business requirements analysis, gap analysis, and network diagrams as artifacts to be used for design and implementation later?

A. TOG
B. ITIL
C. FCAPS
D. Cobit

Answer:

C

NEW QUESTION 169
Which two factors must be considered for high availability in campus LAN designs to mitigate concerns about unavailability of network resources? (Choose two.)

A. device resiliency
B. device type
C. network type
D. network resiliency
E. network size

Answer: AD

NEW QUESTION 170
What are two common approaches to analyzing and designing networks? (Choose two.)

A. bottom-up approach
B. high-low security approach
C. top-down approach
D. left-right approach
E. three-tier approach

Answer: AC

NEW QUESTION 172
What are two primary design constraints when a robust infrastructure solution is created? (Choose two.)

A. monitoring capabilities
B. project time frame
C. staff experience
D. component availability
E. total cost

Answer: BE

NEW QUESTION 173
What is a characteristic of a secure cloud architecture model?

A. limited access to job function
B. dedicated and restricted workstations
C. multi-factor authentication
D. software-defined network segmentation

Answer: D

NEW QUESTION 178
A legacy enterprise is using a Service Provider MPLS network to connect its head office and branches. Recently, they added a new branch to their network. Due to physical security concerns, they want to extend their existing IP CCTV network of the head office to the new branch, without any routing changes in the network. They are also under some time constraints. What is the best approach to extend the existing IP CCTV network to the new branch, without incurring any IP address changes?

A. L2TPv3
B. VXLAN
C. EoMPLS

Answer: B

NEW QUESTION 180
Which two conditions must be met for EIGRP to maintain an alternate loop-free path to a remote network? (Choose two.)

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

Answer: AE

NEW QUESTION 183
Refer to the exhibit.
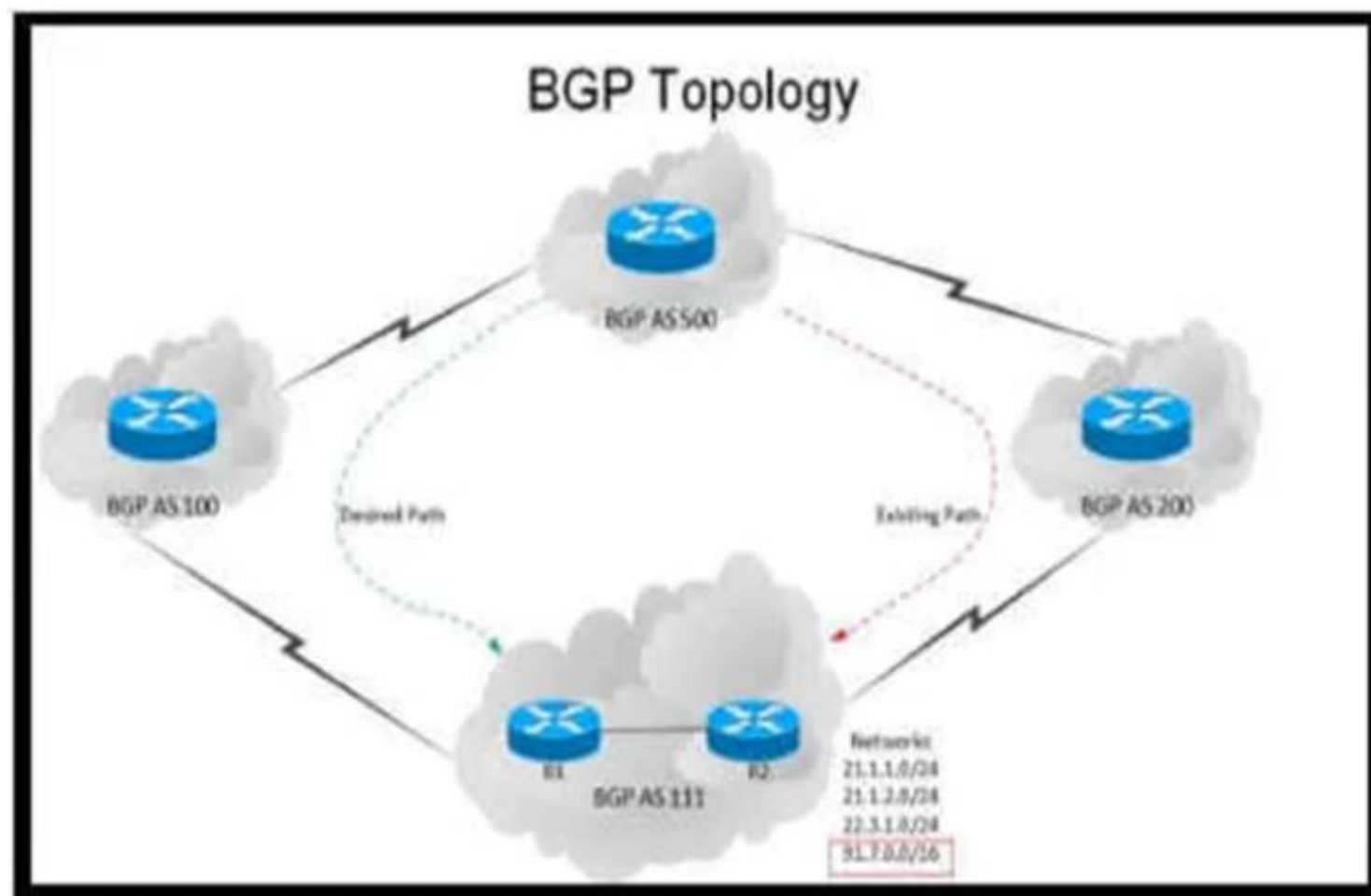
An engineer has been asked to redesign the traffic flow toward AS 111 coming from AS 500. Traffic destined to AS 111 network 91 7 0.0/16 should come in via AS 100. while traffic destined to all other networks in AS 111 should continue to use the existing path Which BGP attributes are best suited to control this inbound traffic coming from BGP AS 500 Into the 91.7.0.0/16 network?

A. Prepend AS path for the 91.7.0.0/16 network and set it for neighbor in AS 200.
B. Use extended community for the 91.7.0.0/16 network, not advertising it to the bi-lateral peer.
C. Use local preference on R1 for the networks that AS 500 advertises to AS 111.
D. Set higher MED for neighbor in AS 100 to influence incoming traffic for the 91. 7.0.0/16 network.

Answer: A

NEW QUESTION 188
Which optimal use of interface dampening on a fast convergence network design is true?

A. When occasional flaps of long duration occur
B. when numerous adjacent flaps of very short duration occur
C. when the router hardware it slower than the carrier delay down detection
D. when the switch hardware is faster than the debounce timer down detection

Answer: B

NEW QUESTION 191
Company XYZ has two routing domains in their network, EIGRP and OSPF. The company wants to provide full reachability between the two domains by implementing redistribution on a router running both protocols. They need to design the redistribution in a way that the OSPF routers will see link costs added to external routes. How must the redistribution strategy be designed for this network?

A. Redistribute using metric type 2 into OSPF.
B. Redistribute using metric type 1 into OSPF.
C. Redistribute using metric type 1 into EIGRP.
D. Redistribute using metric type 2 into EIGRP.

Answer: B

Explanation:
https://www.ciscopress.com/articles/article.asp?p=27573&seqNum=4#:~:text=Routes%20are%20redistributed%

NEW QUESTION 196
An enterprise solution team is performing an analysis of multilayer architecture and multicontroller SDN solutions for multisite deployments. The analysis focuses on the ability to run tasks on any controller via a standardized interface. Which requirement addresses this ability on a multicontroller platform?

A. Deploy a root controller to gather a complete network-level view.
B. Use the East-West API to facilitate replication between controllers within a cluster.
C. Build direct physical connectivity between different controllers.
D. Use OpenFlow to implement and adapt new protocols.

Answer: D

NEW QUESTION 198
Which two features control multicast traffic in a VLAN environment? (Choose two)

A. IGMP snooping

B. MLD snooping
C. RGMP
D. PIM snooping
E. pruning

Answer: AB

NEW QUESTION 201
The Layer 3 control plane is the intelligence over the network that steers traffic toward its intended destination. Which two techniques can be used in service provider-style networks to offer a more dynamic, flexible, controlled, and secure control plane design? (Choose two.)

A. access control lists
B. firewalls
C. QoS policy propagation with BGP
D. remote black-holing trigger
E. prefix lists

Answer: DE

NEW QUESTION 202
Company XYZ has implemented policy-based routing in their network. Which potential problem must be kept in mind about network reconvergence and PBR?

A. It can limit network scalability
B. It can create microloops during reconvergence
C. It increases convergence time.
D. It reduces convergence time.

Answer: B

NEW QUESTION 205
SD-WAN can be used to provide secure connectivity to remote offices, branch offices, campus networks, data centers, and the cloud over any type of IP-based underlay transport network. Which two statements describe SD WAN solutions? (Choose two.)

A. SD-WAN networks are inherently protected against slow performance.
B. Control and data forwarding planes are kept separate.
C. Improved operational efficiencies result In cost savings.
D. Solutions include centralized orchestration, control, and zero-touch provisioning.
E. Solutions allow for variations of commodity and specialized switching hardware.

Answer: BD

NEW QUESTION 206
Agile and Waterfall are two popular methods for organizing projects. What describes any Agile network design development process?

A. working design over comprehensive documentation
B. contract negotiation over customer collaboration
C. following a plan over responding to change
D. processes and tools over individuals and interactions over time

Answer: A

NEW QUESTION 208
Which two mechanisms avoid suboptimal routing in a network with dynamic mutual redistribution between multiple OSPFv2 and EIGRP boundaries? (Choose two.)

A. AD manipulation
B. matching OSPF external routes
C. route tagging
D. route tagging
E. route filtering
F. matching EIGRP process ID

Answer: DE

Explanation:
https://www.cisco.com/c/en/us/support/docs/ip/enhanced-interior-gateway-routing-protocol-eigrp/8606-redist.ht

NEW QUESTION 210
What is the most important operational driver in building a resilient and secure modular network design?

A. Dependencies on hardware or software that is difficult to scale
B. Minimize app downtime
C. Reduce the frequency of failures requiring human intervention
D. Increase time spent on developing new features

Answer: B

NEW QUESTION 214
Retef to the exhibit.
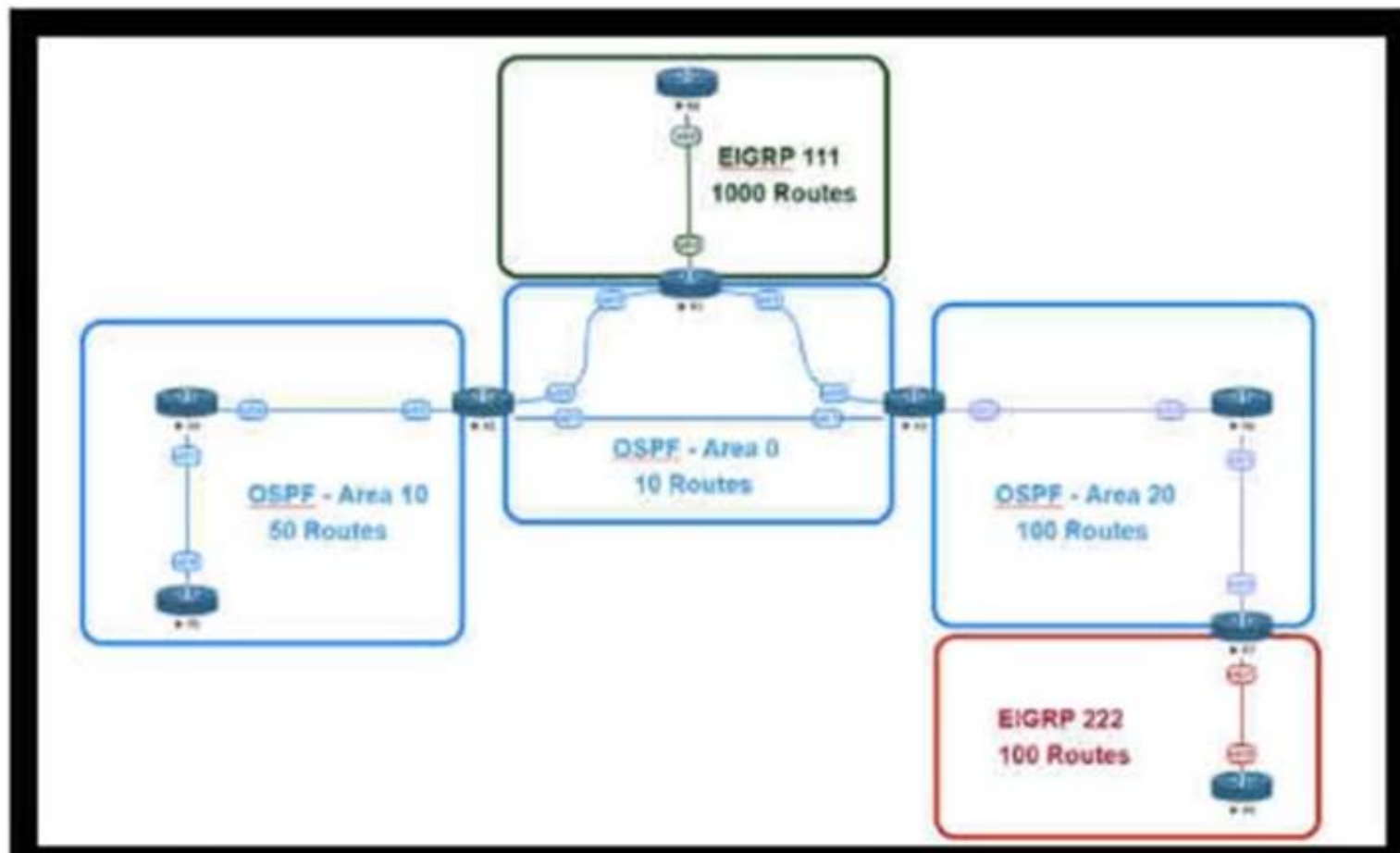
This network is running OSPF and EIGRP as the routing protocols Mutual redistribution of the routing protocols has been contoured on the appropriate ASBRs The OSPF network must be designed so that flapping routes m EIGRP domains do not affect the SPF runs within OSPF The design solution must not affect the way EIGRP routes are propagated into the EIGRP domains Which technique accomplishes the requirement?

A. route summarization the ASBR interfaces facing the OSPF domain
B. route summarization on the appropriate ASBRS.
C. route summarization on the appropriate ABRS.
D. route summarization on EIDRP routers connecting toward the ASBR

Answer: B

NEW QUESTION 218
What are two examples of business goals to be considered when a network design is built? (Choose two.)

A. standardize resiliency
B. minimize operational costs
C. integrate endpoint posture
D. ensure faster obsolescence
E. reduce complexity

Answer: BE

NEW QUESTION 222
Which two points must network designers consider when designing a new network design or when evaluating an existing network design to help them understand the high-level design direction with regards to the security aspects? (Choose two)

A. Consider Business objectives and goals
B. Consider organization's security policy standards
C. Consider for only multi-site networks
D. Consider for only new network technologies and components

Answer: AB

NEW QUESTION 227
Company XYZ is running BGP as their routing protocol. An external design consultant recommends that TCP path MTU discovery be enabled. Which effect will this have on the network?

A. It will enhance the performance of TCP-based applications.
B. It will increase the convergence time.
C. It will improve the convergence time.
D. It will create a loop free path.

Answer: A

NEW QUESTION 228
Refer to the exhibit.
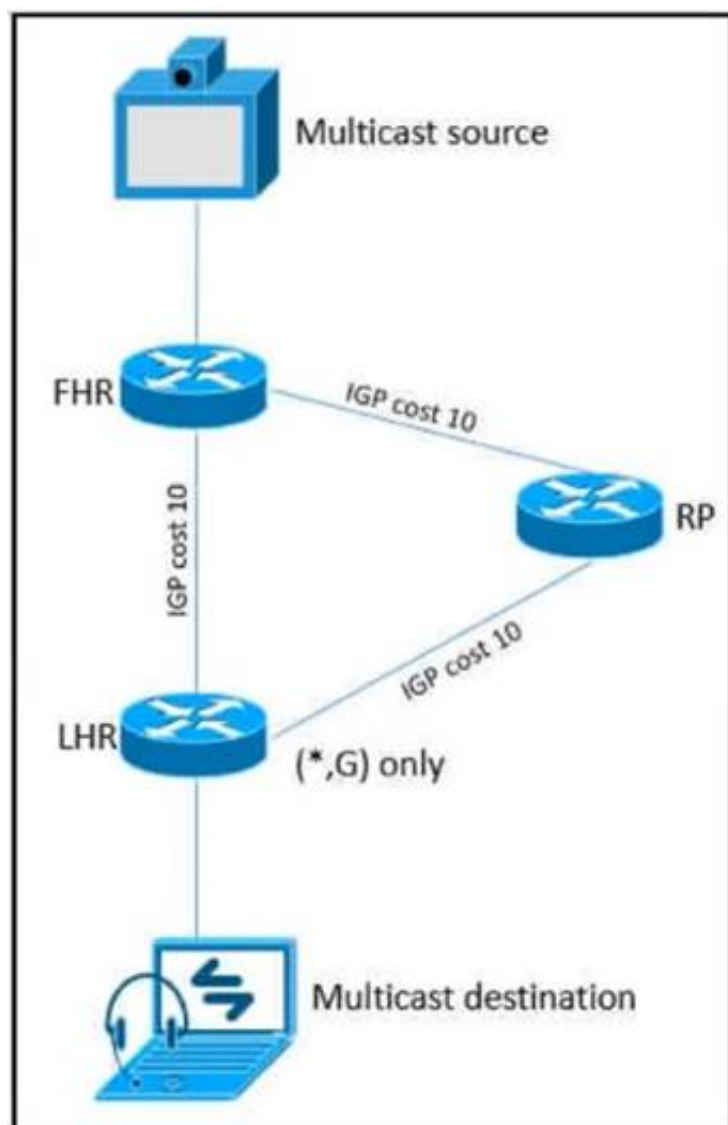
As part of a redesign project, you must predict multicast behavior What happens to the multicast traffic received on the shared tree (*,G), if it is received on the LHR interface indicated*?

A. It is dropped due to an unsuccessful RPF check against the multicast source
B. It is switched give that no RPF check is performed
C. It is switched due to a successful RPF check against the routing table
D. It is dropped due to an unsuccessful RPk8t8ck against the multicast receiver.

Answer: C

Explanation:
https://www.cisco.com/c/en/us/support/docs/ip/ip-multicast/16450-mcastguide0.html
When a multicast packet arrives on an interface, the RPF process checks to ensure that this incoming interface is the outgoing interface used by unicast routing in order to reach the source of the multicast packet. This RPF check process prevents loops. Multicast routing does not forward a packet unless the source of the packet passes a RPF check. Once a packet passes this RPF check, multicast routing forwards the packet based only upon the destination address.

NEW QUESTION 230
Company XYZ runs OSPF in their network. A design engineer decides to implement hot-potato routing architecture. How can this implementation be achieved?

A. Enable iBGP and apply prepend to ensure all prefixes will have the same length of the AS path attribute value.
B. Redistribute the external prefixes onto OSPF and ensure the total metric calculation includes only the ext value and the value is the same in all ASBRs.
C. Enable OSPF load-balancing over unequal cost path.
D. Redistribute the external prefixes onto OSPF and ensure that the total metric calculation includes external internal values.

Answer: D

NEW QUESTION 231
Refer to the exhibit.
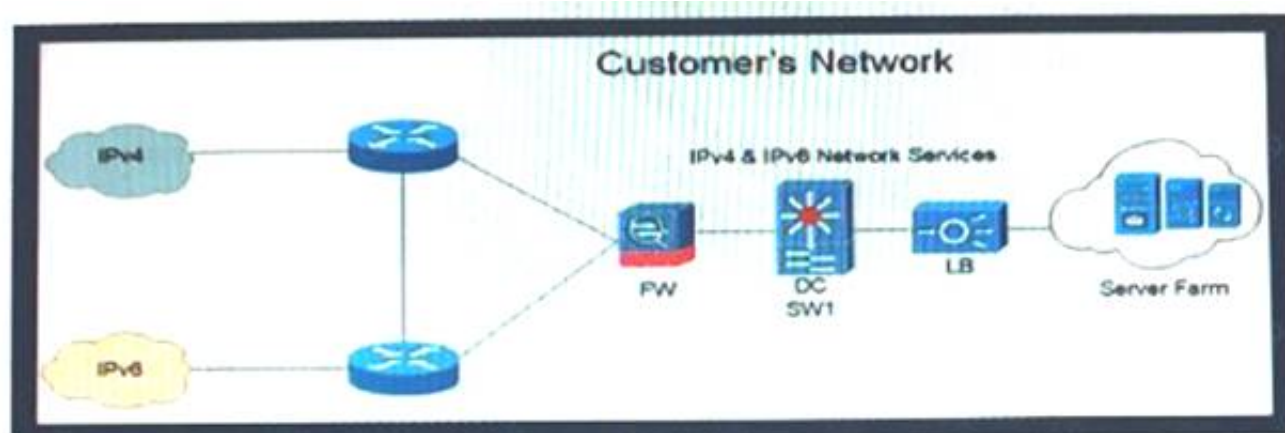
Company XYZ is currently running IPv4 but has decided to start the transition into IPv6. The initial objective is to allow communication based on IPv6 wherever possible, and there should still be support in place for devices that only support IPv4. These devices must be able to communicate to IPv6 devices as well. Which solution must be part of the design?

A. address family translation
B. dual stack
C. host-to-host tunneling

D. 6rd tunneling

Answer: B

NEW QUESTION 236
A green data center is being deployed and a design requirement is to be able to readily scale server virtualization Which IETF standard technology can provide this requirement?

A. data center bridging
B. unified fabric
C. Transparent Interconnection of Lots of Links
D. fabric path

Answer: C

NEW QUESTION 237
Refer to the exhibit.

Site-X 10.10.10.10

Site-Y 10.10.20.20
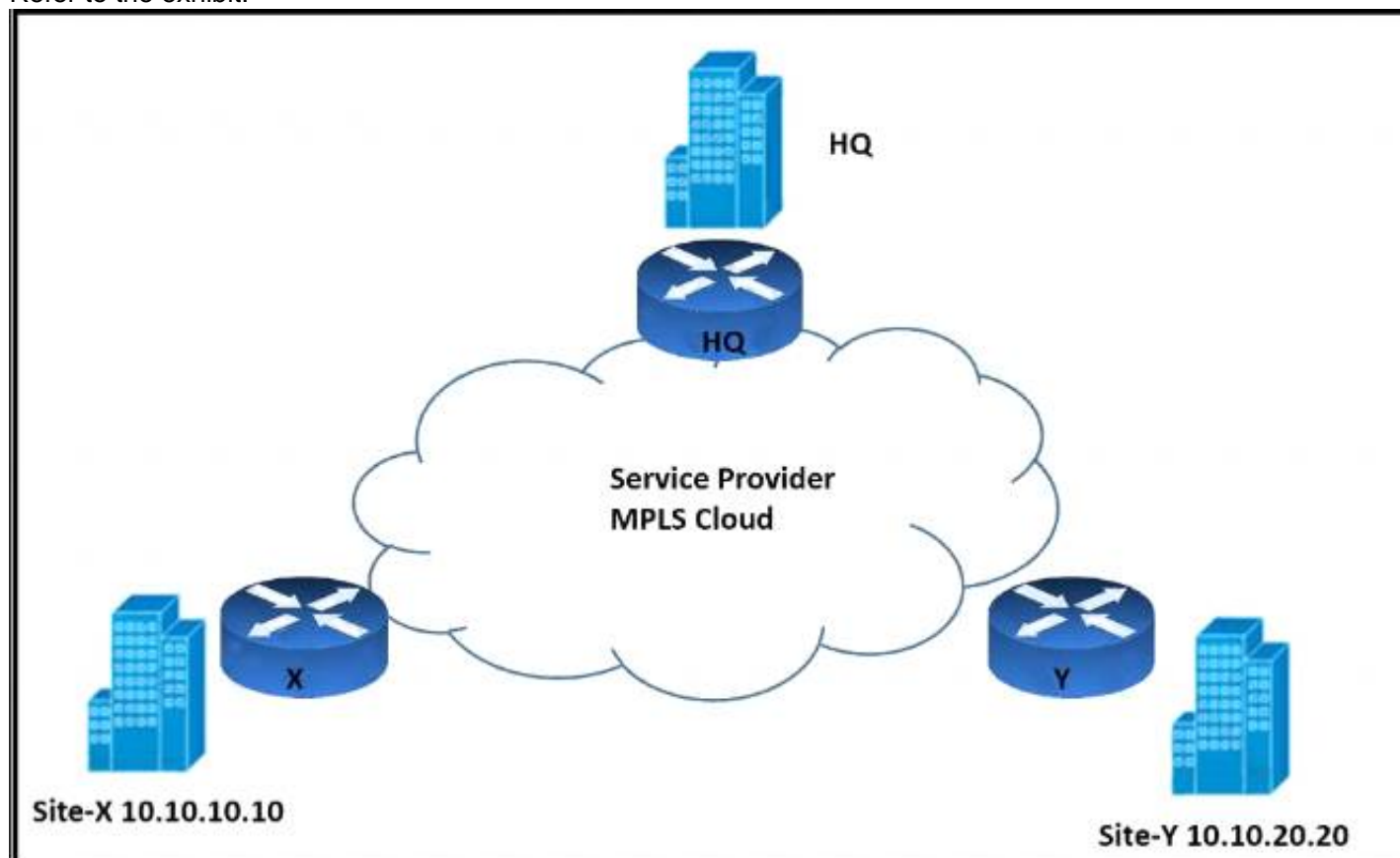
An architect must design an enterprise WAN that connects the headquarters with 22 branch offices. The number of remote sites is expected to triple in the next three years. The final solution must comply with these requirements:

≫ Only the loopback address of each of the enterprise CE X and Y routers must be advertised to the interconnecting service provider cloud network.

≫ The transport layer must carry the VPNv4 label and VPN payload over the MP-BGP control plane.

≫ The transport layer must not be under service provider control.
Which enterprise WAN transport virtualization technique meets the requirements?

A. EIGRP Over the Top
B. MPLS over BGP over multipoint GRE
C. DMVPN per VRF
D. point-to-point GRE per VRF

Answer: B

NEW QUESTION 241
Company XYZ wants to deploy OSPF. The design plan requires that two OSPF networks be mutually redistributed at multiple locations and ensure end-to-end connectivity to all of the company's networks Which technology can be used to fulfill the requirements while avoiding the creation of routing loops?

A. Create a virtual link between ASBRs.
B. Change the router ID for both ASBRs.
C. Redistribute routes as external type 2 routes.
D. Use route maps on ASBRs to filter routes with tags so they are not redistributed.

Answer: D

Explanation:
https://www.cisco.com/c/en/us/support/docs/ip/open-shortest-path-first-ospf/4170-ospfprocesses.html

NEW QUESTION 244
A service provider recently migrated to an SD-WAN solution for delivering WAN connections to its customers. One of the main challenges with the SD-WAN deployment is that branch site volume increases every year, which causes management complexity. Which action resolves the issue?

A. Implement a scalable network management system to manage all sites.
B. Adopt a well-structured SD-WAN service management lifecycle model
C. Build a service orchestration platform on top of the network controller

D. Set up a dedicated team to monitor and provision new customers

Answer: C

NEW QUESTION 246
What advantage of placing the IS-IS layer 2 flooding domain boundary at the core Layer in a three-layer hierarchical network is true?

A. The Layer 1 and Layer 2 domains can easily overlap
B. It reduces the complexity of the Layer 1 domains
C. It can be applied to any kind of topology
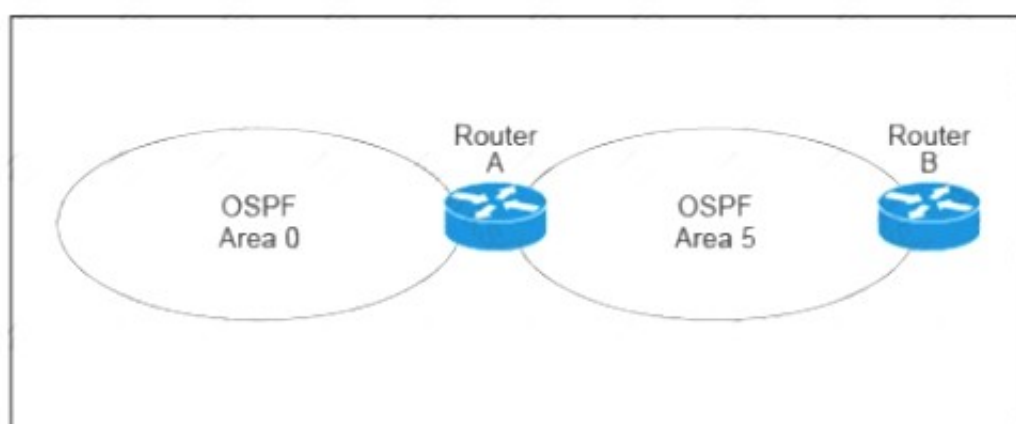D. The Layer 2 domain is contained and more stable

Answer: D

NEW QUESTION 251
Which main IoT migration aspect should be reviewed for a manufacturing plant?

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

Answer: A

NEW QUESTION 254
Refer to the exhibit.

A customer runs OSPF with Area 5 between its aggregation router and an internal router When a network change occurs in the backbone. Area 5 starts having connectivity issues due to the SPF algorithm recalculating an abnormal number of times in Area 5 You are tasked to redesign this network to increase resiliency on the customer network with the caveat that Router B does not support the stub area How can you accomplish this task*?

A. Increase the bandwidth on the connection between Router A and Router B
B. Implement LSA filtering ontheAB, allowing summary routes and preventing more specific routes into Area 5
C. Create a virtual link to Area 0 from Router B to the ABR
D. Turn on LSA throttling on all devices in Area 5
E. Set Area 5 to stubby at the ABR anyway

Answer: B

NEW QUESTION 256
Company XYZ is designing the IS-IS deployment strategy for their multiarea IS-IS domain. They want IS-IS neighbour relationships to be minimized on each network segment and want to optimize the size of the IS-IS LSDB on each router. Which can design can be used to meet these requirements?

A. Design all routers as Level 2 router
B. Set the links between the routers as Level 1 with the area
C. Design the network so that the routers connecting to other areas are Level 2 routers and internal routers are Level 1
D. Design the network so that all routers are Level 1 routers
E. Design the network so that the routers connecting to other areas are Level 1/Level 2 routers and internal routers are Level 1

Answer: D

NEW QUESTION 260
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