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Exam Questions 400-007

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

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NEW QUESTION 1
What are two top cloud-native security challenges faced by today's cloud-oriented organizations? (Choose two)

A. establishing user roles
B. polymorphism
C. lack of visibility and tracking
D. increased attack surface
E. user credential validation

Answer: CD

NEW QUESTION 2
Which two features are advantages of SD-WAN compared to MPLS-based connectivity? (Choose two.)

A. uses FEC constructs for traffic forwarding, thereby improving efficiency
B. separates infrastructure and policy
C. uses policy-based forwarding of real-time traffic with less complexity
D. unifies the WAN backbone
E. manages failures through backup links

Answer: CD

NEW QUESTION 3
A Service Provider is designing a solution for a managed CE service to a number of local customers using a single CE platform and wants to have logical separation on the CE platform using Virtual Routing and Forwarding (VRF) based on IP address ranges or packet length. Which is the most scalable solution to provide this type of VRF Selection process on the CE edge device?

A. Static Routes for Route Leaking
B. Policy Based Routing
C. OSPF per VRF Instance
D. Multi-Protocol BGP

Answer: B

NEW QUESTION 4
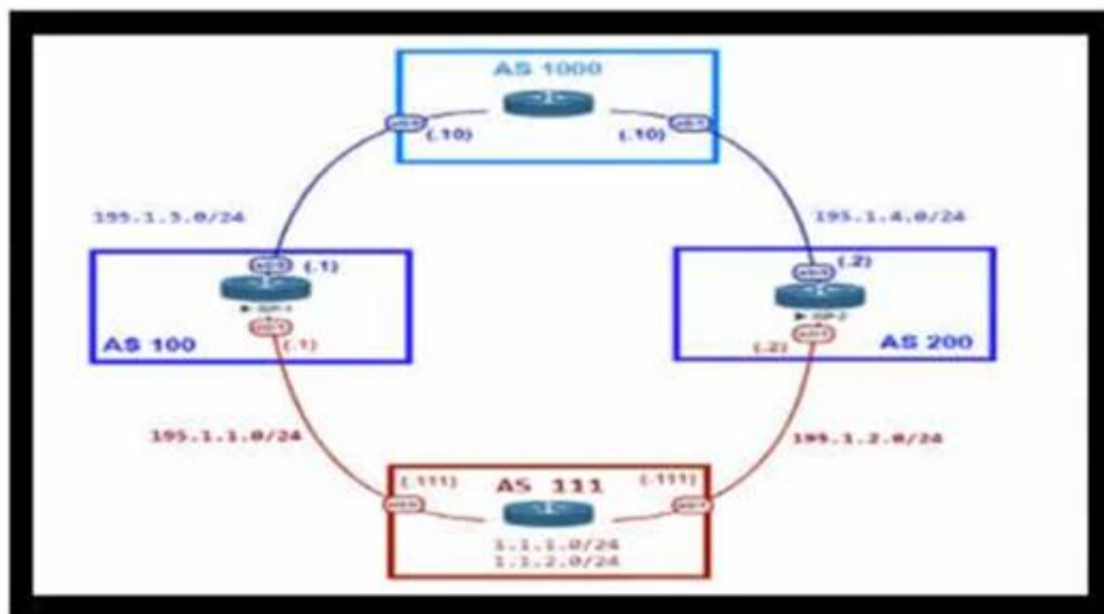Which two statements describe the hierarchical LAN design model? (Choose two)

A. It is a well-understood architecture that provides scalability
B. It is the best design for modern data centers
C. It is the most optimal design but is highly complex
D. It provides a simplified design
E. Changes, upgrades, and new services can be introduced in a controlled and staged manner

Answer: AE

NEW QUESTION 5
Refer to the exhibit.

An engineer is designing the network for a multihomed customer running in AS 111 does not have any other Ass connected to it. Which technology is more comprehensive to use in the design to make sure that the AS is not being used as a transit AS?

A. Configure the AS-set attribute to allow only routes from AS 111 to be propagated to the neighbor ASs.
B. Use the local preference attribute to configure your AS as a non-transit" AS.
C. include an AS path access list to send routes to the neighboring ASs that only have AS 111 in the AS path field.
D. Include a prefix list to only receive routes from neighboring ASs.

Answer: C

NEW QUESTION 6

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 7
Which relationship between IBGP and the underlying physical topology is true?

A. iBGP full mesh requirement does not dictate any specific network topology.
B. iBGP can worn only on a ring network topology with a link-state protocol like OSPF or IS-IS
C. iBGP full mesh requires an underlying fully meshed network topology.
D. iBGP does not work on a ring network topology even with an underlying IGP.

Answer: A

Explanation:
iBGP peers can be multiple hops away. not like eBGP that needs direct connection (or ebgp-multihop defined). thus, only IP connectivity between two peers is required for an adjacency to form.

NEW QUESTION 8
A network design includes a long signaling delay in notifying the Layer 3 control plane that an interface has failed Which two of these actions would reduce that delay? (Choose two.)

A. Increase network stability.
B. Reduce the time for the network to reconverge.
C. Increase the notification of interface flaps.
D. Enable lower data link layer recovery systems to have an opportunity to restore the interface

Answer: BD

NEW QUESTION 9
You are tasked with the design of a high available network. Which two features provide fail closed environments? (Choose two.)

A. EIGRP
B. RPVST+
C. MST
D. L2MP

Answer: AB

NEW QUESTION 10
A financial company requires that a custom TCP-based stock-trading application be prioritized over all other traffic for the business due to the associated revenue. The company also requires that VoIP be prioritized for manual trades. Which directive should be followed when a QoS strategy is developed for the business?

A. Allow VoIP and the custom application to share the same priority queue,
B. The custom application and VoIP must be assigned their own separate priority queue.
C. Interleave the custom application with other TCP applications in the same CBWR
D. Avoid placing the custom application in a CBWFQ queue that contains other

Answer: C

NEW QUESTION 10
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 13
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 14
Which three components are part of the foundational information security principles of the CIA triad? (Choose three.)

A. cryptography
B. confidentiality
C. authorization
D. identification
E. integrity
F. availability

Answer: BEF

NEW QUESTION 16
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 20
Drag and drop the multicast protocols from the left onto the current design situation on the right.

PIM-SM, SSM, BIDIR		IPv4 Group Management
PIM-DM, PIM-SM, SSM, BIDIR		IPv4 Forwarding
IGMP		IPv4 Interdomain Source Discovery
MSDP		IPv6 Group Management
MLD		IPv6 Forwarding

A. Mastered
B. Not Mastered

Answer: A

Explanation:
A picture containing table Description automatically generated
IPv4:
Host Registration - IGMP
Router Registration - PIM-DM, PIM-SM, SSM, BIDIR Inter-Domain Source Discovery - MSDP
IPv6:
Host Registration - MLD
Router Registration - PIM-SM, SSM, BIDIR

NEW QUESTION 23
An architect designs a multi-controller network architecture with these requirements:
> Achieve fast failover to control traffic when controllers fail.
> Reduce connectivity loss and enable smart recovery to improve the SDN survivability.
> Improve connectivity by adding path diversity and capacity awareness for controllers.
Which control plane component of the multi-controller must be built to meet the requirements?

A. control node reliability
B. controller stale consistency
C. control path reliability
D. controller clustering

Answer: B

NEW QUESTION 25
A multicast network is sing Bidirectional PIM. Which two combined actions achieve high availability so that two RPs within the same network can act in a redundant manner? (Choose two)

A. Use two phantom RP addresses
B. Manipulate the administration distance of the unicast routes to the two RPs
C. Manipulate the multicast routing table by creating static mroutes to the two RPs
D. Advertise the two RP addresses in the routing protocol
E. Use anycast RP based on MSDP peering between the two RPs
F. Control routing to the two RPs through a longest match prefix

Answer: AF

Explanation:
https://community.cisco.com/t5/networking-knowledge-base/rp-redundancy-with-pim-bidir-phantom-rp/ta-p/31

NEW QUESTION 26
Which technology supports antispoofing and does not have any impact on encryption performance regardless of packet size?

A. MACsec
B. IP source guard
C. DHCP snooping with DAI
D. IPsec

Answer: A

NEW QUESTION 30
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 32
Company XYZ wants to redesign the Layer 2 part of their network and wants to use all available uplinks for increased performance. They also want to have end host reachability supporting conversational learning. However, due to design constraints, they cannot implement port-channel on the uplinks. Which other technique can be used to make sure the uplinks are in active/active state?

A. TRILL
B. LISP
C. MSTP
D. switch stack

Answer: B

NEW QUESTION 34
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 36
Refer to the table.

CONNECTIVITY	CAPEX	OPEX ANNUAL	INSTALLATION FEE	TERM
DWDM over dark fiber	$250,000	$100,000	$30,000	60 months
CWDM over dark fiber	$150,000	$100,000	$25,000	60 months
MPLS	$50,000	$150,000	$75,000	12 months
Metro Ethernet	$45,000	$125,000	$5,000	36 months

A customer investigates connectivity options for a DCI between two production data centers. The solution must provide dual 10G connections between locations with no single points of failure for Day 1 operations. It must also include an option to scale for up to 20 resilient connections in the second year to accommodate isolated SAN over IP and isolated, dedicated replication IP circuits. All connectivity methods are duplex 10 Gbps. Which transport technology costs the least over two years, in the scenario?

A. Metro Ethernet
B. DWDM
C. CWDM
D. MPLS

Answer: B

NEW QUESTION 40
Which feature is supported by NETCONF but is not supported by SNMP?

A. distinguishing between configuration data and operational data
B. taking administrative actions
C. collecting the status of specific fields
D. changing the configuration of specific fields

Answer: A

NEW QUESTION 44
You have been asked to design a high-density wireless network for a university campus. Which two principles would you apply in order to maximize the wireless network capacity? (Choose two.)

A. Implement a four-channel design on 2.4 GHz to increase the number of available channels
B. Choose a high minimum data rate to reduce the duty cycle.
C. increases the number of SSIDs to load-balance the client traffic.
D. Make use of the 5-GHz band to reduce the spectrum utilization on 2.4 GHz when dual-band clients are used.
E. Enable 802.11n channel bonding on both 2.4 GHz and 5 GHz to increase the maximum aggregated cell throughput.

Answer: BD

NEW QUESTION 48
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 51
Company ABC uses IPv4-only. Recently they started deploying new endpoint devices. For operational reasons, IPv6 cannot be disabled on these new endpoint devices. Which security measure prevents the new endpoint from learning an IPv6 prefix from an attacker?

A. Source Guard and Prefix Guard
B. Router Advertisement Guard
C. Prefix Guard
D. Secure Neighbor Discovery

Answer: B

NEW QUESTION 56
Which tool automates network implementation activities and shortens the implementation lifecycle?

A. LISP
B. Java
C. Conclusion

D. Python

Answer: D

NEW QUESTION 59
An international media provider is an early adopter of Docker and micro services and is using an open-source homegrown container orchestration system. A few years ago, they migrated from on-premises data centers to the cloud Now they are faced with challenges related to management of the deployed services with their current homegrown orchestration system.
Which platform is well-suited as a state-aware orchestration system?

A. Puppet
B. Kubemetes
C. Ansible
D. Terraform

Answer: B

NEW QUESTION 63
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
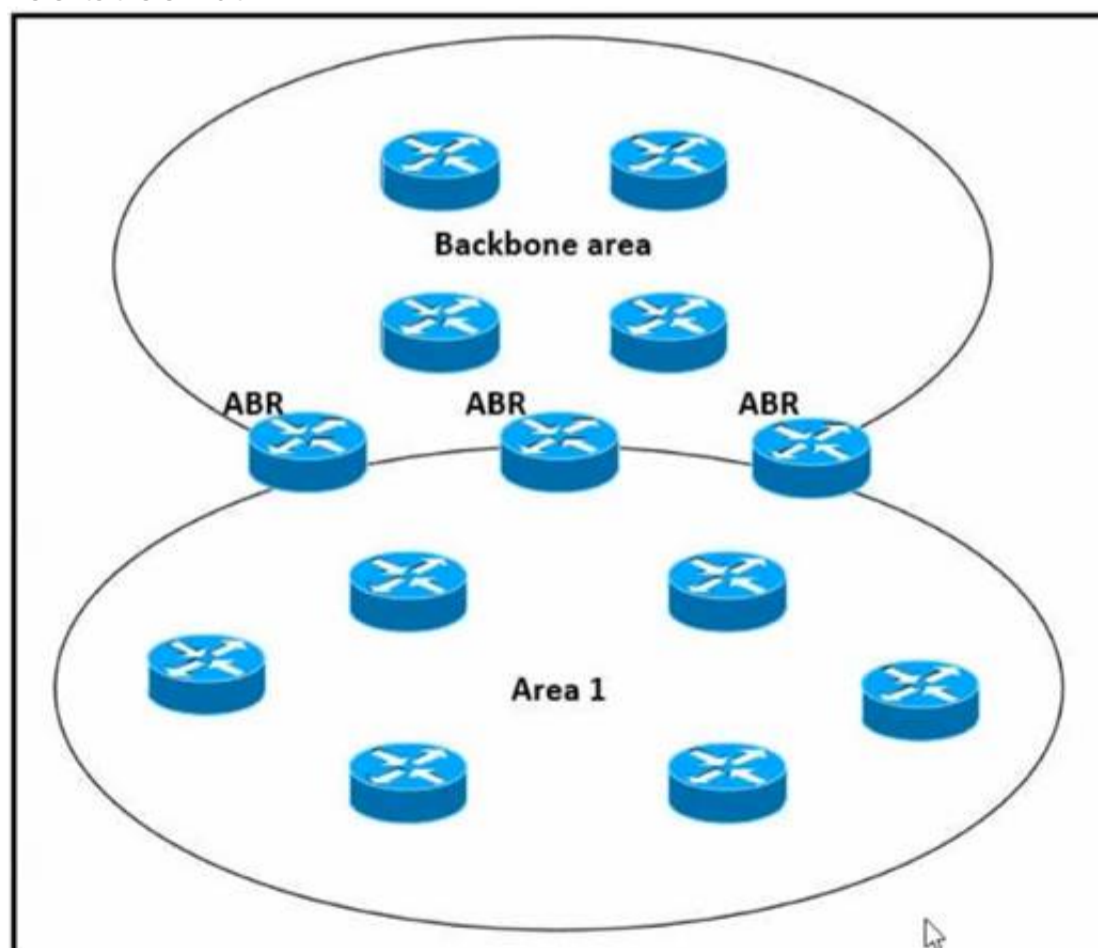
Answer: EF

NEW QUESTION 68
A network security team uses a purpose-built tool to actively monitor the campus network, applications, and user activity. The team also analyzes enterprise telemetry data from IPFIX data records that are received from devices in the campus network. Which action can be taken based on the augmented data?

A. reduction in time to detect and respond to threats
B. integration with an incident response plan
C. adoption and improvement of threat-detection response
D. asset identification and grouping decisions

Answer: A

NEW QUESTION 73
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

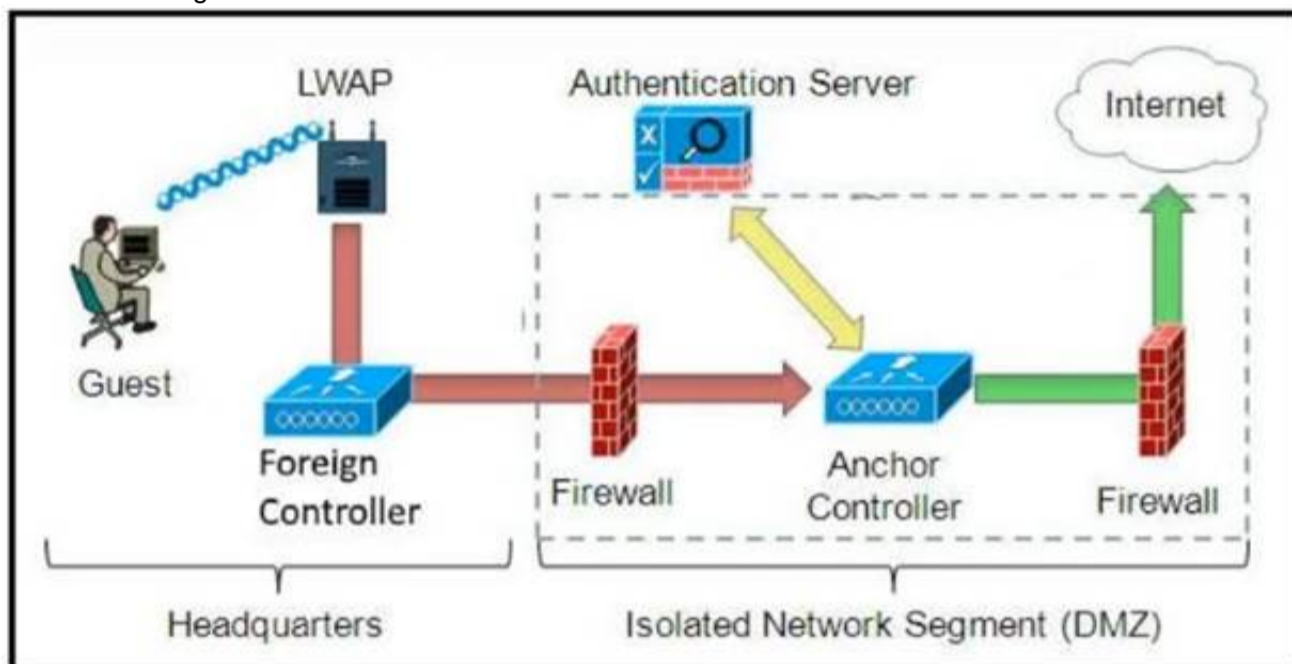**Answer:** A

NEW QUESTION 75
While reviewing an existing network design, you are discussing the characteristics of different STP versions. Which protocol minimizes unicast flooding during a Topology Change Notification in a Layer 2 switched network with many VLANs?

A. PVRSTP
B. MST
C. STP
D. PVSTP+

Answer: A

NEW QUESTION 78
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 80
A Tier-3 Service Provider is evolving into a Tier-2 Service Provider due to the amount of Enterprise business it is receiving The network engineers are re-evaluating their IP/MPLS design considerations in order to support duplicate/overlapping IP addressing from their Enterprise customers within each Layer3 VPN. Which concept would need to be reviewed to ensure stability in their network?

A. Assigning unique Route Distinguishers
B. Assigning unique Route Target ID'S
C. Assigning unique IP address space for the Enterprise NAT/Firewalls
D. Assigning unique VRF ID's to each L3VPN

Answer: A

NEW QUESTION 83
An enterprise plans to evolve from a traditional WAN network to a software-defined WAN network. The existing devices have limited capability when it comes to virtualization. As the migration is carried out, enterprise applications and services must not experience any traffic impact. Which implementation plan can be used to accommodate this during the migration phase?

A. Deploy controllers, deploy SD-WAN edge router
B. In the data center, and migrate branch sites.
C. Migrate data center WAN routers, migrate branch sites, and deploy SD-WAN edge routers.
D. Migrate branch sites, migrate data center WAN routers, and deploy controllers.
E. Deploy SD-WAN edge routers in the data center, deploy controllers, and migrate branch sites
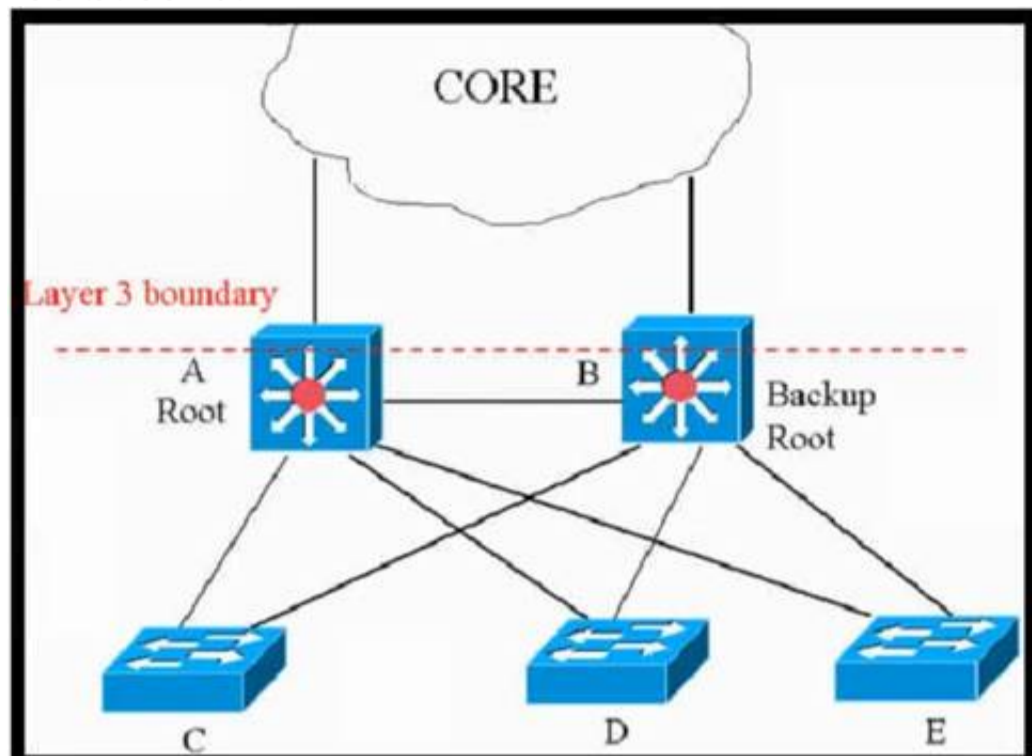
Answer: A

NEW QUESTION 88
Company XYZ wants to use the FCAPS ISO standard for network management design. The focus of the
design should be to monitor and keep track of any performance issues by continuously collecting and analyzing statistical information to monitor, correct, and optimize any reduced responsiveness across the network. Which layer accomplishes this design requirement?

A. fault management
B. accounting management
C. performance management
D. security management

Answer: C

NEW QUESTION 91
Refer to the exhibit.

This network is running legacy STP 802.1 d. Assuming "hello_timer" is fixed to 2 seconds, which parameters can be modified to speed up convergence times after single link/node failure?

A. The transit_delay=5 and dpdu_delay=20 are recommended values, considering helto_timer=2 and specified
B. Only the maximum_transmission_halt_delay and diameter parameters are configurable parameters in 802. to speed up STP convergence process
C. The max_age and forward delay parameters can be adjusted to speed up STP convergence process.
D. Only the transit_delay and bpdu_delay timers are configurable parameters in 802.1d to speed up STP convergence process.

Answer: C

NEW QUESTION 93
A healthcare provider discovers that protected health information of patients was altered without patient consent. The healthcare provider is subject to HIPAA compliance and is required to protect PHI data. Which type of security safeguard should be implemented to resolve this issue?

A. technical and physical access control
B. administrative security management processes
C. physical device and media control
D. technical integrity and transmission security

Answer: D

Explanation:
https://www.cisco.com/en/US/docs/solutions/Enterprise/Compliance/HIPAA/HIP_AppC.html#wp1085353

NEW QUESTION 96
What is an architectural framework created by ETSI that defines standards to decouple network functions from proprietary hardware-based appliances and have them run in software on standard x86 servers?

A. NFVIS
B. NFV
C. VNF

Answer: C

NEW QUESTION 99
Which two protocols are used bv SDN controllers to communicate with switches and routers? (Choose two)

A. OpenFlash
B. OpenFlow
C. NetFlash
D. Open vSwitch Database
E. NetFlow

Answer: BD

NEW QUESTION 102
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 106
The network designer needs to use GLOP IP addresses in order to make them unique within their ASN Which multicast address range should be used?

A. 232.0.0.0 to 232 255.255.255
B. H233.0.0 0 to 233.255.255 255
C. 239000 to 239255255.255
D. 224000 to 2240.0 255

Answer: B

NEW QUESTION 107
An IT service provider is upgrading network infrastructure to comply with PCI security standards. The network team finds that 802.1X and VPN authentication based on locally-significant certificates are not available on some legacy phones.
Which workaround solution meets the requirement?

A. Replace legacy phones with new phones because the legacy phones will lose trust if the certificate is renewed.
B. Enable phone VPN authentication based on end-user username and password.
C. Temporarily allow fallback to TLS 1.0 when using certificates and then upgrade the software on legacy phones.
D. Use authentication-based clear text password with no EAP-MD5 on the legacy phones.

Answer: B

NEW QUESTION 112
A network architect must redesign a service provider edge, where multiservice and multitenant PEs are currently present. Which design feature should be minimized in the new design to achieve reliability?

A. bridging
B. fate sharing
C. redundancy
D. unicast overlay routing

Answer: B

NEW QUESTION 116
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 118
Which function is performed at the access layer of the three-layer hierarchical network design model?

A. fault isolation
B. QoS classification and marking boundary
C. reliability
D. fast transport
E. redundancy and load balancing

Answer: B

NEW QUESTION 119
Organizations that embrace Zero Trust initiatives ranging from business policies to technology infrastructure can reap business and security benefits. Which two domains should be covered under Zero Trust initiatives? (Choose two)

A. workload
B. work domain
C. workplace
D. workgroup
E. workspace

Answer: AC

NEW QUESTION 121
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 126
What are two key design principles when using a hierarchical core-distribution-access network model? (Choose two)

A. A hierarchical network design model aids fault isolation
B. The core layer is designed first, followed by the distribution layer and then the access layer
C. The core layer provides server access in a small campus.
D. A hierarchical network design facilitates changes
E. The core layer controls access to resources for security

Answer: AD

NEW QUESTION 129
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.
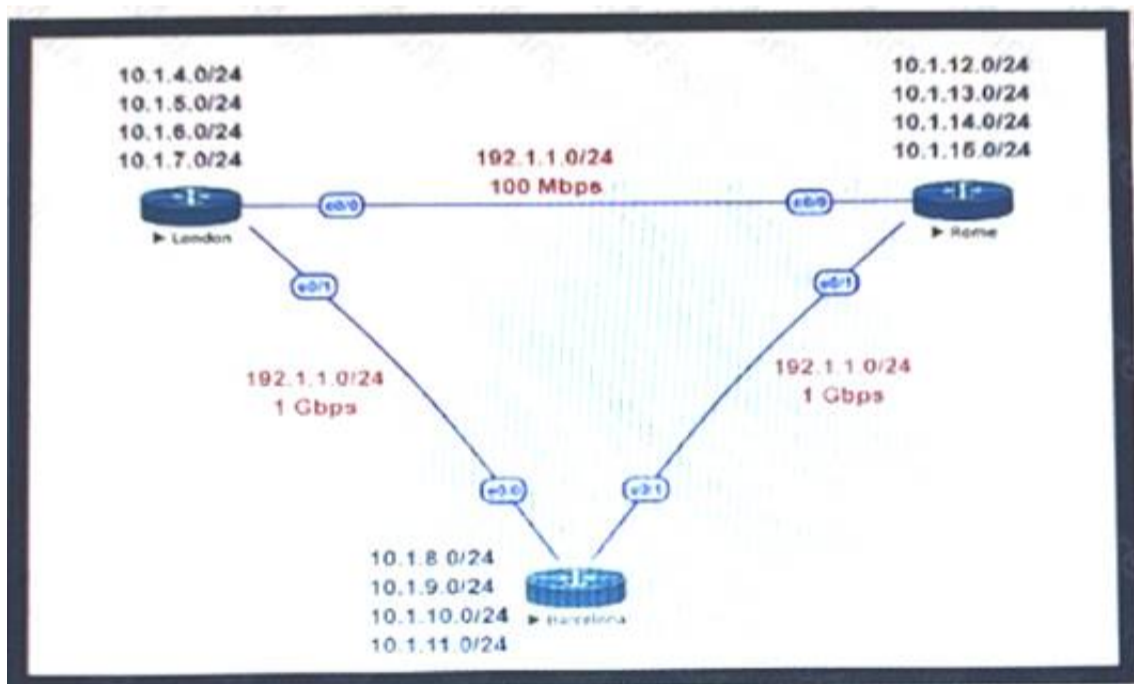
Answer: C

NEW QUESTION 131
A banking customer determines that it is operating POS and POI terminals that are noncompliant with PCI DSS requirements, as it is running TLSv1.0. The customer plans to migrate the terminals to TLSv1.2. What are two requirements to complete the migration? (Choose two.)

A. Ensure that strong cryptography is applied for users who have administrative access through networks
B. Apply strong cryptography and security protocols to safeguard sensitive cardholder data.
C. Apply strong encryption for transmission of cardholder data across public networks.
D. Protect all user systems against malware and frequently update antivirus software
E. Maintain a policy that addresses information security for employees and third parties.

Answer: CE

NEW QUESTION 132
Refer to the exhibit.

This network is running OSPF as the routing protocol. The internal networks are being advertised in OSPF London and Rome are using the direct link to reach each other although the transfer rates are better via Barcelona Which OSPF design change allows OSPF to calculate the proper costs?

A. Change the OSPF reference bandwidth to accommodate faster links.
B. Filter the routes on the link between London and Rome
C. Change the interface bandwidth on all the links.
D. Implement OSPF summarisation to fix the issue

Answer: A

NEW QUESTION 135
A product manufacturing organization is integrating cloud services into their IT solution The IT team is working on the preparation phase of the implementation approach, which includes the Define Strategy step. This step defines the scope of IT, the application, and the service What is one topic that should be considered in the Define Strategy step?

A. financial and governance models
B. innovate and align with business according to volume
C. due diligence and financial scenarios
D. contingency exit strategy steps

Answer: D

NEW QUESTION 140
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 144
A service provider hires you to design its new managed CE offering to meet these requirements
• The CEs cannot run a routing protocol with the PE
• Provide the ability for equal or unequal ingress load balancing in dual-homed CE scenarios.
• Provide support for IPv6 customer routes
• Scale up to 250.000 CE devices per customer.
• Provide low operational management to scale customer growth.
• Utilize low-end (inexpensive) routing platforms for CE functionality. Which tunneling technology do you recommend?

A. FlexVPN
B. point-to-point GRE
C. DMVPN
D. LISP

Answer: D

NEW QUESTION 148
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 153
You have been tasked with designing a data center interconnect as part of business continuity You want to use FCoE over this DCI to support synchronous replication. Which two technologies allow for FCoE via lossless Ethernet or data center bridging? (Choose two.)

A. DWDM
B. EoMPLS
C. SONET/SDH
D. Multichassis EtherChannel over Pseudowire
E. VPLS

Answer: AC

NEW QUESTION 155
Company XYZ wants to secure the data plane of their network. Which two technologies can be included in the security design? (Choose two)

A. DAI
B. IP Source Guard
C. BEEP
D. CPPr
E. MPP

Answer: AB

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 163

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 167
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 168
Company XYZ wants to use the FCAPS ISO standard for network management design. The focus of the design should be to minimize network outages by employing a set of procedures and activities to detect and isolate network issues and the appropriate corrective actions to overcome current issues and prevent them from occurring again. Which layer accomplishes this design requirement?

A. fault management
B. performance management
C. security management
D. accounting management

Answer: A

NEW QUESTION 172
Company XYZ needs advice in redesigning their legacy Layer 2 infrastructure. Which technology should be included in the design to minimize or avoid convergence delays due to STP or FHRP and provide a loop-free topology?

A. Use switch clustering in the access layer.
B. Use switch clustering in the core/distribution layer.
C. Use spanning-tree PortFast.
D. Use BFD.

Answer: B

NEW QUESTION 174
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 175
An enterprise wants to provide low-cost delivery of network systems that can be scaled on business demand, followed by an initiative to reduce capital expenses for new IT equipment. Which technology meets these goals'?

A. IaaS within a private cloud
B. IaaS within an on-premises location
C. PaaS within a public cloud
D. SaaS within an on-premises location

Answer: C

NEW QUESTION 178
A customer asks you to perform a high level review of their upcoming WAN refresh for remote sites The review is specially focused on their retail store operations consisting of 500+ locations connected via mutlipoint IPsec VPN solution. Which routing protocol would be valid but would also be the most restrictive for the expansion of this deployment model?

A. EIGRP

B. IS-IS
C. OSPF
D. BGP

Answer: B

NEW QUESTION 179
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 181
Company XYZ has a hub-and-spoke topology over an SP-managed infrastructure. To measure traffic performance metrics, they implemented IP SLA senders on all spoke CE routers and an IP SLA responder on the hub CE router. What must they monitor to have visibility on the potential performance impact due to the constantly increasing number of spoke sites?

A. CPU and memory usage on the spoke routers
B. memory usage on the hub router
C. CPU usage on the hub router
D. interface buffers on the hub and spoke routers

Answer: C

NEW QUESTION 186
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 189
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 193
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 194
IPFIX data collection via standalone IPFIX probes is an alternative to flow collection from routers and switches. Which use case is suitable for using IPFIX probes?\

A. performance monitoring
B. security
C. observation of critical links
D. capacity planning

Answer: A

NEW QUESTION 199
A company plans to use BFD between its routers to detect a connectivity problem inside the switched network. An IPS is transparently installed between the switches. Which packets shold the IPS forward for BFD to work under all circumstances?

A. Fragmented packet with the do-not-fragment bit set
B. IP packets with broadcast IP source addresses
C. IP packets with the multicast IP source address
D. IP packet with the multicast IP destination address
E. IP packets with identical source and destination IP addresses
F. IP packets with the destination IP address 0.0.0.0.

Answer: E

NEW QUESTION 202
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 203
Which two advantages of using DWDM over traditional optical networks are true? (Choose two.)

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

Answer: BC

NEW QUESTION 208
Your company wants to deploy a new data center infrastructure Based on the requirements you have chosen VXLAN as encapsulation technology The customer is concerned about miss-configuration of Layer 2 devices and DC wide outages caused by Layer 2 loops What do you answer?

A. VXLAN offers native loop avoidance mechanism
B. Storm Control should be enabled on all ports
C. VPC+ could prevent L2 loop on access ports
D. BPDU Guard should be enabled on all VTEP access ports

Answer: D

NEW QUESTION 211
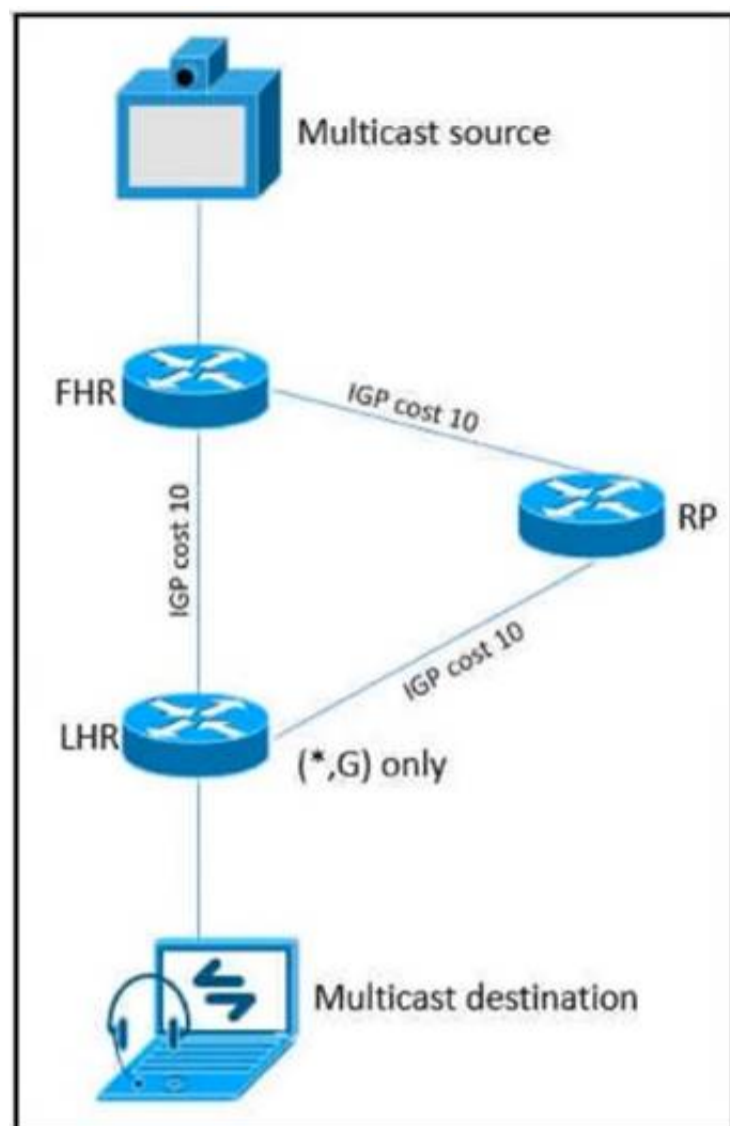Which design consideration is valid when you contrast fabricPath and trill?

A. FabricPath uses IS-IS, but TRILL uses VxLAN
B. FabricPath permits active-active FHRP and TRILL support anycast gateway.
C. FabricPath Permits ECMP, but TRILL does not
D. FabricPath permits active-active mode, but TRILL supports only active-standby mode.

Answer: B

NEW QUESTION 216
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 219
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 220
An enterprise organization currently provides WAN connectivity to their branch sites using MPLS technology, and the enterprise network team is considering rolling out SD-WAN services for all sites.
With regards to the deployment planning, drag and drop the actions from the left onto the corresponding steps on the right.

Select deployment models between virtual server software and hardware-based SD-WAN appliances.	step 1
Conduct a pilot test to observe and record unexpected issues.	step 2
Make an assessment of running protocols and application usage in the network.	step 3
Evaluate existing circuits and performance to get details of connectivity cost and reliability.	step 4
Layout transport plan based on business prioritizes traffic and the unique bandwidth requirements of each specific application.	step 5
Understand the traffic monitoring requirements and capabilities.	step 6

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Table Description automatically generated with medium confidence

NEW QUESTION 221
A key to maintaining a highly available network is building in the appropriate redundancy to protect against failure. This redundancy is carefully balanced with the inherent complexity of redundant systems. Which design consideration is relevant for enterprise WAN use cases when it comes to resiliency?

A. Design in a way that expects outages and attacks on the network and its protected resources
B. The design approach should consider simple and centralized management aspect
C. Design in a way that it simplifies and improves ease of deployment
D. Design automation tools wherever it is appropriate for greater visibility
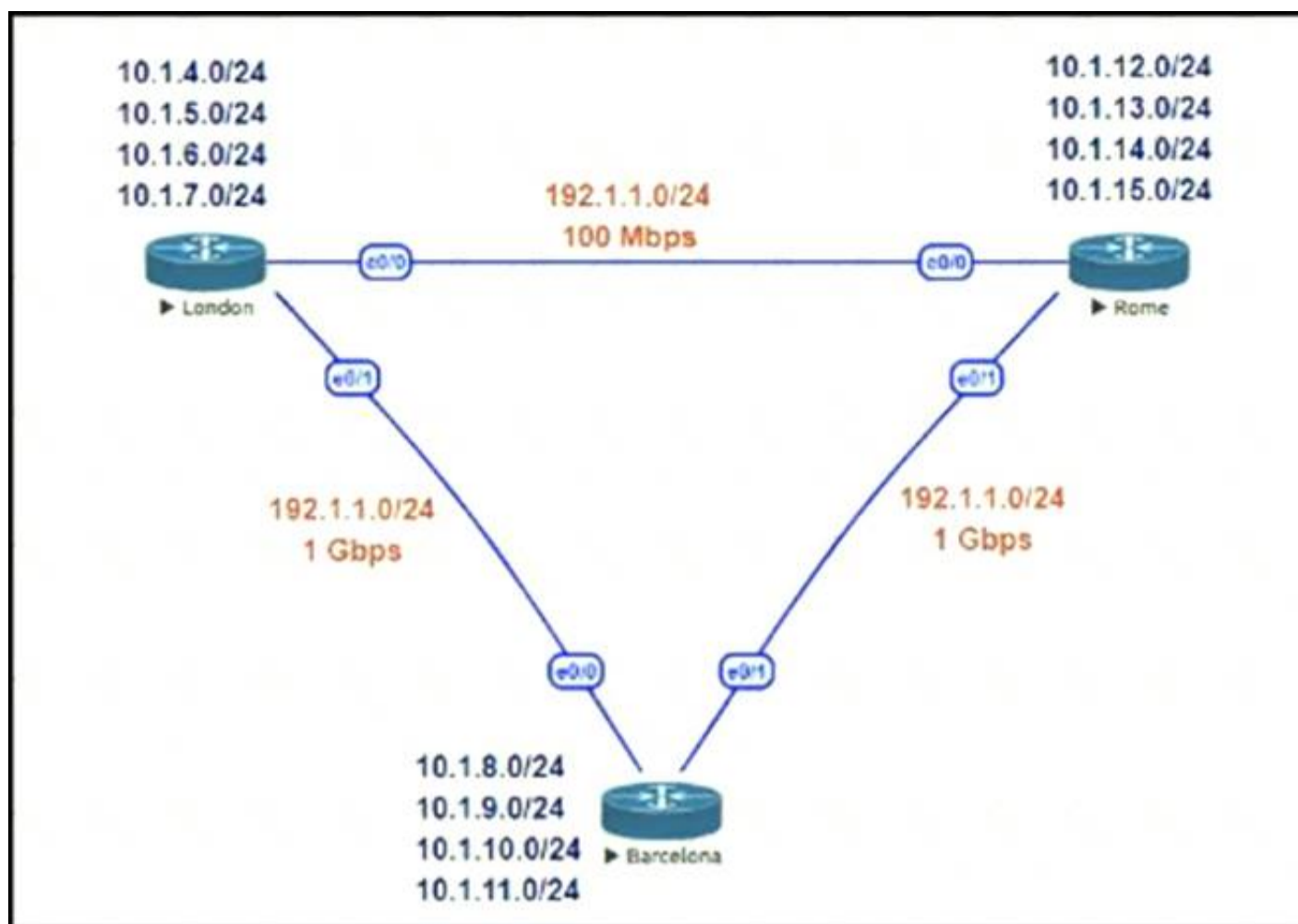
Answer: A

NEW QUESTION 225
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 229
Refer to the exhibit.

This network is running EIGRP as the routing protocol and the internal networks are being advertised in EIGRP. Based on the link speeds, all traffic between London and Rome is getting propagated via Barcelona and the direct link between London and Rome is not being utilized under normal working circumstances. The EIGRP design should allow for efficiency in the routing table by minimizing the routes being exchanged. The link between London and Rome should be utilized for specific routes. Which two steps accomplish this task? (Choose two.)

A. Configure EIGRP route summarization on all the interfaces to summarize the internal LAN routes
B. Filter the routes on the link between London and Barcelona
C. Filter the routes on the link between London and Rome
D. Configure route leaking of summary routes on the link between London and Rome

Answer: AD

NEW QUESTION 234
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 239
A BGP route reflector in the network is taking longer than expected to coverage during large network changes. Troubleshooting shows that the router cannot handle all the TCP acknowledgements during route updates. Which action can be performed to tune the device performance?

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

Answer: A

NEW QUESTION 242
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 243
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