



**Cisco**

**Exam Questions 352-001**

CCDE Written Exam

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#### NEW QUESTION 1

The cloud service provider CSP is planning to launch five data centers in Egypt, United Arab Emirates, Saudi Arabia, Qatar and Turkey. CSP is looking for VLAN extension and DCIs between these five data centers to allow for software replication, where original and backup VMs must be on the same subnet. Which tunneling technology must they use?

- A. VPLS
- B. IPsec VPN
- C. VPWS
- D. L2TPv3

**Answer: A**

#### NEW QUESTION 2

Which load balancing option for IP-only traffic is the least efficient in terms of EtherChannel physical links utilization?

- A. On a per source IP address basis
- B. On a per destination MAC address basis
- C. On a per destination IP address basis
- D. On a per port number basis

**Answer: B**

#### NEW QUESTION 3

A service provider wants to use a controller to automate the provisioning of service function chaining. Which two overlay technologies can be used with EVPN MP-BGP to create the service chains in the data center?

- A. VXLAN
- B. MPLS L2VPN
- C. Provider Backbone Bridging EVPN
- D. 802.1Q

**Answer: A**

#### NEW QUESTION 4

ACME Corporation is integrating IPv6 into their network, which relies heavily on multicast distribution of data. Which two IPv6 integration technologies support IPv6 multicast? (Choose two.)

- A. 6VPE
- B. 6PE
- C. dual stack
- D. ISATAP
- E. 6to4
- F. IPv6INIP

**Answer: CE**

#### NEW QUESTION 5

What is an implication of using route reflectors in an iBGP topology?

- A. Route reflection limits the total number of iBGP routers.
- B. Route reflection causes traffic to flow in a hub-and-spoke fashion.
- C. The manipulation of BGP attributes is not supported on the other routers than the route reflectors.
- D. Route reflectors can create routing loops when more than one router reflector is used in the same cluster.
- E. Multipath information is difficult to propagate in a route reflector topology.

**Answer: E**

#### NEW QUESTION 6

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

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

**Answer: AB**

#### NEW QUESTION 7

Which three options are important design functions of IPv6 first-hop security? (Choose three)

- A. It prevents rogue DHCP servers from assigning IPv6 addresses.
- B. It prevents IPv6 packet fragmentation.
- C. It limits IPv6 route advertisement in the network.

- D. It implements a broadcast-control mechanism.
- E. It suppresses excessive multicast neighbor discovery.
- F. It implements multihoming security.

**Answer:** ACE

#### NEW QUESTION 8

Which major block is not included in the ETSI network Function Virtualization reference framework?

- A. Network Function Virtualization Infrastructure
- B. Network Function Virtualization Management and Orchestration
- C. Network Function Virtualization Policy Manager
- D. Virtualized Network Function/ Element Management Systems

**Answer:** C

#### NEW QUESTION 9

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

- A. TCP MSS adjustment
- B. Certificate-based authentication
- C. Transform set
- D. NAT

**Answer:** D

#### NEW QUESTION 10

Refer to the exhibit.

How should you redesign this network running BGP to improve availability of the routers 1A and 1B at the core site?

- A. Deploy BGP PIC
- B. Use link bundles over multiple slots
- C. Enable graceful restart
- D. Create a multichassis system with the two routers

**Answer:** A

#### NEW QUESTION 10

What is a design application of control plane policing?

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

**Answer:** A

#### NEW QUESTION 13

Refer to the exhibit.

This Layer 2 ring has 10 VLANs with 1000 MAC addresses in each VLAN. Which protocol or mechanism provides the shortest traffic outage if the link marked with “X” fails?

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

**Answer:** D

#### NEW QUESTION 18

Refer the exhibit.

You have designed a IPv6 migration plan, and now you need to determine the impact on the existing IPv4 network. Which is likely to happen when you enable IPv6 routing on the link between R3 and R2, starting at R3?

- A. R3 advertises the link from R3-R2 to R1, R4 and R5 only.
- B. R2 receives an IPv6 default route from R3.
- C. Only R3 and R2 have IPv4 and IPv6 reachability.
- D. Loopback reachability between all routers for IPv4 is lost.
- E. All routers except R2 are reachable through IPv4.

**Answer:** D

#### NEW QUESTION 20

An operations engineer asks for your help with a new switching deployment. The engineer confirms that STP is enabled on an edge switch, and a particular port is connected to another switch. The switch is not receiving configuration BPDUs, although it appears that everything is functioning correctly in the network. What is the design explanation?

- A. Bridge Assurance is enabled on the port
- B. Storm control broadcast is enabled on the port
- C. REP is enabled on the port
- D. BPDU Guard is enabled on the port

**Answer:** C

#### NEW QUESTION 22

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

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

**Answer:** AE

#### NEW QUESTION 24

DRAG DROP

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

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Detection: carrier delay, dead timer

Processing: LSA arrival timer, incremental SPF

#### NEW QUESTION 27

Refer to the Exhibit.

In which three Layers should you use nonstop Forwarding to reduce service impact in case of failure? (Choose three)

- A. Enterprise Edge
- B. Enterprise Core
- C. Service provider Edge
- D. Dual-attached sever Layer
- E. Enterprise Non-Routed Access Layer
- F. Enterprise Non-Routed Distribution Layer.

**Answer:** ABC

#### NEW QUESTION 30

Which two functions are performed at the core layer of the three-layer hierarchical network design model? (Choose two).

- A. Fault isolation
- B. Qos classification and marking boundary
- C. Fast transport
- D. Reliability
- E. Load balancing

**Answer:** CD

#### NEW QUESTION 34

Which mechanism provides fast path failure detection?

- A. Non-Stop Forwarding
- B. Carrier delay
- C. Graceful restart
- D. UDLD
- E. Fast hello packets
- F. iSPF

**Answer: E**

#### NEW QUESTION 37

Which technology, implemented on aggregation –edge nodes at the aggregation layer, provides per –tenant isolation at Layer 3, with separate dedicated per-tenant routing and forwarding tables on the inside interfaces of firewall contexts?

- A. VDC
- B. VLAN
- C. VXLAN
- D. VRF-lite

**Answer: D**

#### NEW QUESTION 39

There is an MPLS-enabled link constantly flapping on an MPLS VPN network. Given that the network runs OSPF as the IGP protocol, which design mechanism will stabilize the network and avoid constant re-convergence?

- A. IP Event Dampening
- B. OSPF fast hellos
- C. IP SLA
- D. Partial SPF

**Answer: A**

#### NEW QUESTION 42

Which option is a benefit of using N-Port Virtualization?

- A. reduces the amount of domain IDs that are used in the fabric
- B. does not need to create zoning
- C. reduces latency when using local switching on Fibre Channel ports
- D. allows trunking to the upstream switch
- E. does not need to configure the upstream switches

**Answer: A**

#### NEW QUESTION 46

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

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

**Answer: CD**

#### NEW QUESTION 47

A financial trading organization plans to monitor the network latency for multicast data feeds on a hop-by-hop basis. Which technology should be added to their design to support this requirement?

- A. SPAN
- B. NBAR
- C. IPFIX
- D. Precision Time Protocol

**Answer: D**

#### NEW QUESTION 49

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

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

**Answer:** B

**NEW QUESTION 50**

Which two components are the responsibility of the customers in a platform as a Service offering?  
(Choose two)

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

**Answer:** AD

**NEW QUESTION 55**

You are designing a WAN network solution with EIGRP based on VPLS. The interface speed is 10Mb/s, but the access rate of the WAN connection is 256 Kb/s. What should you include in the network design, in order to avoid potential issues with EIGRP?

- A. Limit EIGRP traffic to the access rate with a policer.
- B. Tag outbound EIGRP traffic and have the WAN provider add it to the priority queue.
- C. Limit traffic to the access rate with interface traffic shaping.
- D. Set the interface bandwidth to match the access rate.

**Answer:** D

**NEW QUESTION 60**

An ISP provides VoIP and internet services to its customers. For security reasons, these services must be transported in different MPLS Layer 3 VPNs over the ISP core network. The customer CEs do not have the ability to segment the services using different VLANs and have only one uplink interface that does not support VLAN tagging. How should you design the network to ensure that VoIP traffic that is received from the CE goes in the VoIP VPN, and that Internet traffic goes into the Internet VPN on the ISP PE devices?

- A. Use a secondary interface IP address to differentiate between VoIP and Internet traffic
- B. Extend the Layer 3 VPN toward the CE
- C. Enable NBAR on the PE to direct the traffic into the correct VRF
- D. Use a subinterface on the PE for each service, VoIP and Internet, with different subnets
- E. Use policy-based routing to direct traffic into the correct VRF

**Answer:** E

**NEW QUESTION 61**

How can a network designer reduce the amount of LSA flooding occurring in a large, single area fully-meshed OSPF topology?

- A. Implemented passive OSPF interfaces on the routers not participating on the DR/BDR election.
- B. Use access control lists to control outbound advertisements.
- C. Ensure DR and BDR routers are placed optimally in the topology.
- D. Place all point-to-point links in their own dedicated areas.

**Answer:** C

**NEW QUESTION 66**

A company would like to distribute a virtual machine (VM) hosting cluster between three data centers with the capability to move VMs between sites. The connectivity between data centers is IP only and the new design should use the existing WAN. Which Layer 2 tunneling technology do you recommend?

- A. AToM
- B. L2TPv3
- C. OTV
- D. VPLS

**Answer:** C

**NEW QUESTION 68**

You are designing the QoS features for a large enterprise network that includes DMVPN. In which situation should you use the QoS pre-classify feature?

- A. When you are marking packets with the ToS bits
- B. When the QoS policy cannot be based on DSCP bits
- C. When you are marking packets with the DSCP bits
- D. When your service provider requires the DSCP bits be set

**Answer:** B

**NEW QUESTION 71**

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

Clients and access servers must be mutually authenticated. Which solution meets these requirements?

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

**Answer: B**

#### NEW QUESTION 76

You are consultant network designer for a large GET VPN deployment for a large bank with International coverage. Between 1800 and 2000 remote locations connect to the central location through four hubs using an MPLS backbone and using two keys servers. The bank is concerned with security and replay attacks. Which two actions should you use to tune the GET VPN to meet the bank requirements? (Choose two)

- A. Increase the cryptographic key size.
- B. Replace unicast rekey with multicast rekey.
- C. Reduce the SAR clock interval duration
- D. Increase the TEK and KEK lifetime.
- E. Reduce the Dead Peer Detection periodic timer.

**Answer: BC**

#### NEW QUESTION 78

The enterprise customer ABC Corp will deploy a centralized unified communications application to provide voice, and instant messaging to their branch offices. Some of the branch offices are located in remote locations and are connected via a 1.5 Mb/s Layer 3 VPN connection. Which two ways are the most cost-effective to ensure that this new application is implemented properly? (Choose two)

- A. Use a low bitrate codec such as G 711
- B. Set voice activity detection to avoid sending packets when the conversations is silent
- C. Enable VRF-Lite on the CE router to create a separate voice VRF
- D. Set LFI on the WAN connections to interleave the small voice packets with the large data packets
- E. Set WAN optimization on the CE router to compress the voice packets for improved bandwidth utilization and performance
- F. Use a low bitrate codec such as G 729

**Answer: BF**

#### NEW QUESTION 79

What is a correct design consideration of IPv6 MLD snooping?

- A. MLD snooping conserves bandwidth on switches.
- B. MLD snooping is used to filter all MLD queries.
- C. MLD snooping requires IGMP snooping to be implemented.
- D. MLD snooping conserves CPU by sharing IPv4 and IPv6 multicast topology.

**Answer: A**

#### NEW QUESTION 84

In an OSPF network, users in a particular OSPF non-backbone area are complaining about slow access speeds to a shared corporate resource in another OSPF area. Traceroutes show that the users are taking a suboptimal default route to the destinations. Which solution will improve access speed?

- A. Make the area totally stubby so that the default can be followed along the best path
- B. Create a virtual link between the areas so that traffic can shortcut directly between them
- C. Leak specific summaries on the ABRs for the remote subnets in addition to the default
- D. Implement policy routing to channel the traffic in the optimal direction

**Answer: C**

#### NEW QUESTION 87

You are designing a data center migration from one location to another, which requires all existing VLANs spanned to the new data center to maintain host IP addressing. Two temporary Gigabit Ethernet circuits are available to extend the VLANs at Layer 2 to the location as trunk links between core switches in each location. Which solution provides maximum fault isolation between the two data centers to ensure a Layer 2 issue in one data center does not affect the other during the migration?

- A. Perform BPDU filtering over the trunk links
- B. Enable STP PortFast on host ports within each data center
- C. Run the dual links as multichassis Etherchannel trunk between core switches within each location
- D. Perform HSRP filtering over the trunk links to maintain active HSRP gateways within each data center for each VLAN

**Answer: A**

#### NEW QUESTION 90

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

- A. Increase the size of the large buffers

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

**Answer:** D

#### NEW QUESTION 94

When designing a network .Which method can be used to control the exit point for traffic an autonomous system, at the layer 3 control plane?

- A. Prepending AS path.
- B. Tuning the multi-exit discriminator.
- C. Setting the site of Origin extended community.
- D. Tuning the metric of the under-tying IGP.

**Answer:** D

#### NEW QUESTION 95

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

- A. Design the network to include UDLD to detect unidirectional links and take them out of service.
- B. Design the network to include Ether Channel bundles to prevent a single-link failure from taking down a switch interconnection point.
- C. Design the network to include loop guard to prevent a loop in the switched network when a link has too much interference.
- D. Design the network to include Backbone Fast on all devices to accelerate failure convergence times.

**Answer:** B

#### NEW QUESTION 99

Refer to the exhibit

company xyz has 150 branch location across the U.S. Each branch is connected to two aggregation router one router in each data center The network is configured with Multiple OSPF with multiple OSPF areas and the aggregation router are ABRs A requirement is to keep an optimal path to the data centers and at the same time reduce the LSA propagation and SPF recomputation during a change in any part of the network Which design elements should be included on the aggregation router?

- A. OSPF NSSA
- B. distribute lists
- C. OSPF summarization
- D. OSPF totally stubby area

**Answer:** C

#### NEW QUESTION 101

An network is designed to use OSPF to reach eBGP peers. Which condition should be avoided in the design to potentially prevent the eBGP peers do not flap continuously in case of link failure?

- A. Disable BGP synchronization.
- B. Advertise IP addresses used on eBGP peer statement via a non-backbone OSPF area.
- C. Advertise via eBGP IP addresses used on eBGP peer statements.
- D. Use an ACL to block BGP in one direction.

**Answer:** C

#### NEW QUESTION 104

You work as a network designer for a company that is replacing their Frame Relay WAN with an MPLS VPN service, where the PE-to-CE routing protocol is BGP. The company has 3000 routes in their distribution routers, and they would like to advertise their access routers through the MPLS network. Their service provider, however, only supports 1000 prefixes per VRF. Which two design solutions can be applied to ensure that your access routers will be able to reach all devices in your network? (Choose two.)

- A. Configure the distribution routers to send a default route to the MPLS network
- B. Configure null routes and aggregate routes for the prefixes in your network on the distribution routers
- C. Summarize the routes on MPLS WAN interfaces of the distribution routers
- D. Use prefix lists on the distribution routers to control which routes are sent to MPLS network
- E. Configure the access routers to send a default route to the MPLS network

**Answer:** AC

#### NEW QUESTION 107

Refer to the exhibit.

You must review this single OSPF area, DMVPN network because the company has noticed a few area 0 convergence and stability issues. Also, traffic destined to the data center from one of the spokes as the next hop on the path. The company prefers that all traffic destined to the data center uses the least amount of hops. Which solution resolves these issues with the minimum amount of changes on the network?

- A. Migrate from OSPF to static routes between the hub routers and the spoke routers and deploy IP SLA for route health checks
- B. Migrate from OSPF to EIGRP between the hub routers and the spoke routers

- C. Modify OSPF cost metrics on all backup links
- D. Create areas between each hub and their spoke routers, to ensure that the hub routers become DRs

**Answer: C**

#### NEW QUESTION 112

Which two options are design considerations when introducing FCoE into an existing network? (Choose two)

- A. The FCoE QoS markings may overlap with call signaling QoS markings
- B. Optical cabling is needed to transmit FCoE traffic between a server and its directly connected Ethernet switch
- C. The existing network must support a MTU of 3280 bytes
- D. Twinaxial cabling can be used to transmit FCoE traffic between a server and its directly connected Ethernet switch, if it is less than 10 meters
- E. All the servers in the data center must be retrofitted with converged Network Adapters

**Answer: AE**

#### NEW QUESTION 115

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

- A. Ensure that all network devices have their clocks synchronized.
- B. Collect SNMP poll information for future regression analysis.
- C. Capture both ingress and egress flow-based packets, while avoiding duplication of flows.
- D. Look at average counters instead of instantaneous counters for inconsistent and bursty KPIs, such as CPU utilization and interface utilization.
- E. Validate data plane health, and application and services availability, with synthetic traffic.

**Answer: ABD**

#### NEW QUESTION 116

Which two options are considered risks or concerns when both the Internet and VPN service functions are on the same PE router? (Choose two.)

- A. Internet-based attacks can affect VPN customers.
- B. BGP cannot simultaneously run on the PE router that runs MPLS.
- C. MP-BGP prefixes increase routers' global routing tables, which affects network convergence.
- D. Failure on the PE router affects both VPN and Internet services.
- E. Customer performance can be affected by VPN traffic if Internet-based traffic is not prioritized on the PE

**Answer: AD**

#### NEW QUESTION 121

You are asked to design an RSVP-TEL LSP protection solution for a large service provider network .Which traffic protection mechanism is highly scalable and ensure that multiple LPS always terminate at the same merge point?

- A. Shared explicit protection.
- B. Detour LSPs.
- C. 1:N protection.
- D. 1:1 protection.

**Answer: C**

#### NEW QUESTION 124

Refer to the exhibit.

Transit traffic in this large enterprise campus network passes the eBGP core. Per security policy, traffic coming from AS 65444 destined for AS 65466 and vice-versa must pass through AS 65400. An audit discovers that traffic between 65444 and 65466 did not pass through 65400, instead it is communicating directly. How must you design BGP to ensure that the traffic from AS 65444 destined for AS 65466 passes through AS65400 on this broadcast network?

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

**Answer: C**

#### NEW QUESTION 129

Your customer recently acquired a company with a national WAN of 750 locations consisting of MPLS VPN-based sales, Internet-based sites and sites with direct links to regional hub sites. The existing network has MPLS VPN-based sites. Which solution ensure security and encryption across all sites to meet an audit requirement?

- A. Implement a hierarchical DMVPN-based hub-and-spoke network with IPsec encryption
- B. Migrate newly acquired sites to the MPLS VPN-based service of the parent company
- C. Implement a GETVPN-based solution across all sites with selective traffic encryption
- D. Implement a GETVPN-based solution across all sites with redundant key servers

**Answer: A**

#### NEW QUESTION 132

Which two options are Loop-Free Alternate design considerations? (Choose two)

- A. MPLS TE must be enabled because it is used for building the backup paths
- B. Backup coverage and effectiveness is dependent on the network topology
- C. It can simplify the capacity planning by matching the backup path with the post-convergence path
- D. It provides an optional backup path by avoiding low bandwidth and edge links
- E. It can impact SLA-sensitive appliance by routing traffic to low bandwidth links while IGP convergence is in progress

**Answer:** BE

#### NEW QUESTION 135

An enterprise customer A with provider-independent address space is dual-homed to two ISP. Which two options, when combined, allow for customer A to efficiently achieve out-bound traffic load-balancing? (Choose two)

- A. Advertise Customer A subnets with a shorter AS path prepend to one of the ISPs than to the other
- B. Advertise Customer A subnets with different MED values to the two ISPs
- C. Accept a default route from both ISPs
- D. Make the CE connected to both ISPs route reflector
- E. Accept the routes originated on both ISPs and their direct peers

**Answer:** CE

#### NEW QUESTION 140

Across a large WAN network, there will be new video traffic being distributed from a single source at any given time however, the video source might originate from different parts of the multicast domain at different times. Which multicast technology provides for this multicast traffic to be distributed with optimal path selection to the source?

- A. Any source Multicast.
- B. PIM sparse mode.
- C. Bidirectional PIM.
- D. Source Specific Multicast.

**Answer:** D

#### NEW QUESTION 143

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

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

**Answer:** AE

#### NEW QUESTION 144

Refer to the exhibit.

As part of a redesign project, you must predict multicast behavior. What is the resultant multicast traffic receiving on the shared tree( , G), if it is received on the LHR interface indicated?

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

**Answer:** B

#### NEW QUESTION 147

What two options are significant drivers for 5G in IoT networks? (Choose two)

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

**Answer:** BC

#### NEW QUESTION 151

DRAG DROP

Drag and drop the NETCONF layers on the left onto their appropriate description on the left.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

#### NEW QUESTION 155

DRAG DROP

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

DMVPN spoke to spoke tunnels take a few seconds.  
Use DMVPN to set up tunnels and GETVPN for encryption.

#### NEW QUESTION 156

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

- A. Collect RMON poll information for future regression analysis
- B. Ensure that all network devices have their clocks synchronized
- C. Look at average counters instead of instantaneous counters for inconsistent and bursty KPIs, such as CPU utilization and interface utilization.
- D. Collect SNMP poll information for future regression analysis
- E. Validate data plane health, application and services availability with synthetic traffic
- F. Capture both ingress and egress flow-based packet
- G. While avoiding duplications of flows

**Answer:** BCD

#### NEW QUESTION 159

You are performing a BGP design review for a service provider that offers MPLS-based services to their end customers. The network is comprised of several PE routers that run iBGP with a pair of route reflectors for all BGP address families. Which two options about the use of Constrained Route Distribution for BGP/MPLS VPNs are true? (Choose two.)

- A. The RRs do not need to advertise any route target filter toward the PE routers
- B. The RR must advertise the default route target filter toward the PE routers
- C. Both PE and RR routers must support this feature
- D. This feature must be enabled on all devices in the network at the same time
- E. Route distinguishers are used to constrain routing updates

**Answer:** BC

#### NEW QUESTION 163

A customer requests that you determine how much of their remote branch traffic into a central data center is related to a call manager that resides in the data center. Which solution do you recommend?

- A. Enable NetFlow on branch routers
- B. Enable netFlow on central data center routers
- C. Perform SNMP polling of central data center routers
- D. Perform SNMP polling of branch routers
- E. Create an ACL on the local call manager switch with logging enabled

F. Span traffic from the switch port on the call manager to a data analyzer

**Answer: B**

**NEW QUESTION 166**

As network designer, which option is your main concern with regards to virtualizing multiple network zones into a single hardware device?

- A. Fate sharing
- B. CPU resource allocation
- C. Congestion control
- D. Security
- E. Bandwidth allocation

**Answer: A**

**NEW QUESTION 168**

The service provider that you work for wants to offer IPv6 internet service to its customers without upgrading all of its access equipment to support IPv6, which transition technology do you recommend?

- A. NAT64
- B. CGN
- C. Dual-stack CPE
- D. 6RD

**Answer: D**

**NEW QUESTION 169**

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

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

**Answer: B**

**NEW QUESTION 174**

Which three items do you recommend for control plane hardening of an infrastructure device?  
(Choose three)

- A. To enable unused services
- B. Warning banners
- C. Routing protocol authentication
- D. Control Plane Policing
- E. Redundant AAA servers
- F. SNMPv3

**Answer: CDF**

**NEW QUESTION 176**

An enterprise network has two core routers that connect to 200 distribution routers and uses full-mesh iBGP peering between these routers as its routing method. The distribution routers are experiencing high CPU utilization due to the BGP process. Which design solution is the most effective?

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

**Answer: C**

**NEW QUESTION 180**

Which two statements about AToM are true? (Choose two)

- A. It encapsulates Layer 2 frames at the egress PE
- B. When using AToM, the IP precedence field is not copied to the MPLS packet
- C. AToM supports connecting different L2 technologies using interworking option
- D. The loopback address of the PE router must be either /24 or /32
- E. It provides support for L2VPN features on ATM interfaces

**Answer: CE**

**NEW QUESTION 181**

Which option reduces jitter in a VoIP network?

- A. Deploy WRED
- B. Deploy call Admission Control
- C. Adjust the playout delay buffer at the receiver
- D. Increase the bandwidth of the links

**Answer: C**

#### NEW QUESTION 182

Which option describes the fundamental design differences between an IP-based network design and a SAN-based?

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

**Answer: A**

#### NEW QUESTION 187

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

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

**Answer: CDF**

#### NEW QUESTION 191

Refer to the exhibit.

Service provider ACME Internet just added a 100 GB/s peering in Paris that it wants to use by default for outbound traffic to Big ISP. Which routing policy achieves the desired outcomes?

- A. Use traffic engineering by injecting a preferred LOCAL\_PREF attribute to routes advertised from Very Big ISP in Paris
- B. Apply an import policy in New York that adds a Weight attribute to routes learned from Very Big ISP via Paris
- C. Apply an export policy in Paris by applying a MED or community attribute with a preference that very Big ISP act upon
- D. Apply an import policy that filters longer prefixes than /24 in Brussels and Zurich

**Answer: A**

#### NEW QUESTION 193

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 197

Refer to the exhibit.

An enterprise has three sites over a Layer 2 Metro Ethernet ELAN service. 100Mb/s and 10 Mb/s links have been provisioned to provide redundancy for the head office. When OSPF routing enabled to provide connectivity and the correct bandwidth statement has been applied to each interface, the branch sites observe two equal-cost routes to the head office. The enterprise wants to send all traffic through the 100 Mb/s link and use the 10Mb/S link strictly as a backup. Which OSPF network type must be set to ensure that the head office 100 Mb/s circuit is preferred over the 10 Mb/s circuit, at the same time minimize the amount of configuration required on all of the routers throughout the network?

- A. NBMA
- B. Point-to-multipoint
- C. Point-to-point
- D. Broadcast

**Answer: C**

#### NEW QUESTION 201

Which two functions are performed at the distribution layer of the three-layer hierarchical network design model? (Choose two)

- A. Fast transport
- B. QoS classification and marking boundary
- C. Fault isolation
- D. Redundancy and load balancing
- E. Reliability

**Answer:** CD

#### NEW QUESTION 204

What is design considerations of policy-based routing?

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

**Answer:** B

#### NEW QUESTION 208

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

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

**Answer:** AE

#### NEW QUESTION 213

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

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

**Answer:** C

#### NEW QUESTION 215

Which two items are required for data plane hardening of an infrastructure device? (Choose two)

- A. Disable unused services
- B. Routing protocol authentication
- C. SNMPv3
- D. Redundant AAA servers
- E. Infrastructure ACLs
- F. Warning banners
- G. Control Plane Policing

**Answer:** AE

#### NEW QUESTION 220

You are designing dual-homed active/active ISP connections from an enterprise customer for internet services, and you have recommended BGP between the customer and ISP. When three security mechanisms do you enable to secure the connection? (Choose three)

- A. uRPF is strict mode
- B. remote triggered black holes
- C. IDS
- D. GTSM
- E. Routing protocol authentication
- F. uRPF in loose mode

**Answer:** BEF

#### NEW QUESTION 224

Which interconnectivity method offers the fastest convergence in the event of a unidirectional issue between three Layer 3 switches connected together with routed links in the same rack in a data center?

- A. Fiber Ethernet connectivity with UDLD enabled
- B. Copper Ethernet connectivity with BFD enabled
- C. Fiber Ethernet connectivity with BFD enabled

D. Copper Ethernet connectivity with UDLD enabled

**Answer: C**

#### NEW QUESTION 229

Which two control plane policer design options should you consider to achieve high availability?  
(Choose two)

- A. Control plane policers require that adequate protocols overhead are factored in to allow protocol convergence
- B. Control plane policers are really needed only on externally facing devices
- C. Control plane policers can cause the network management systems to create false alarms
- D. Control plane policers are enforced in hardware to protect the software path, but they are hardware platform-dependent in terms of classification ability
- E. Control plane policers must be processed before a forwarding decision is made

**Answer: DE**

#### NEW QUESTION 231

Which four resources does Cisco Cloud Center provision in an ACL environment? (Choose four)

- A. VLAN Pool
- B. Contracts
- C. End point Group (EPG)
- D. VRF
- E. Subject/Filters
- F. Application Network Profile (ANP)

**Answer: BCEF**

#### NEW QUESTION 235

Which effect of designing a Layer 2 network using the PortFast fast feature with PVST+ is true?

- A. It shuts down the port when receiving the superior BPDU
- B. It accelerates the network convergence on the trunk uplinks
- C. In combination with BPDU filtering, it causes the switch port to stay in the forwarding state
- D. It moves the switch port directly to the forwarding state

**Answer: D**

#### NEW QUESTION 239

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

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

**Answer: D**

#### NEW QUESTION 244

In a design around fast convergence in case of a link failure, what is the justification for using a point-to-point OSPF network type on the Ethernet links between leaf-and-spine switches on a data center fabric?

- A. Link failure tears down neighbor relationships regardless of network type configured
- B. Type 1 LSAs are not generated on a point-to-point network type
- C. Adjacencies can be built faster without a DR/BDR on the segment
- D. The fabric memory requirements are significantly smaller than with a DR/BDR on each leaf and spine segment
- E. The point-to-point network type allows for NSF to be used in this design

**Answer: C**

#### NEW QUESTION 248

A data center design requires monitoring of their business critical voice and video services accessed by remote locations. Which two items are applicable? (Choose two)

- A. If multiple applications share the same DSCP or CoS values, NBAR can be utilized
- B. The applications being monitored must be assigned a unique CoS value
- C. If multiple applications share the same the same DSCP or CoS values, IPFIX can be utilized
- D. The applications being monitored must be assigned a unique QoS profile
- E. The applications being monitored must be assigned unique DSCP values
- F. The reporting data must be assigned to a QoS profile to ensure accurate statistics

**Answer: CF**

#### NEW QUESTION 251

Which DCI technology utilizes a "flood and learn" technique to populate the Layer 2 forwarding

table?

- A. OTV
- B. E-VPN
- C. VPLS
- D. LISP

**Answer:** A

#### NEW QUESTION 253

After a large EIGRP network had automatic summarization enabled throughout, it started experiencing routing loops. Which action should you take to quickly resolve the routing loops yet to perform summarization?

- A. Redistribute connected routes at major IP networks boundaries
- B. Redesign the IP addressing scheme
- C. Increase the AD of the automatically summarized routes
- D. Replace the automatic summarization with more specific summary routes

**Answer:** D

#### NEW QUESTION 254

You are working on a network design plan for a company with approximately 2000 sites. The sites will be connected using the public Internet. You plan to use private IP addressing in the network design, which will be routed without NAT through an encrypted WAN network. Some sites will be connected to the Internet with dynamic public IP addresses, and these addresses may change occasionally. Which VPN solution will support these design requirements?

- A. GET VPN must be used, because DMVPN does not scale to 2000 sites.
- B. DMVPN must be used, because GET VPN does not scale to 2000 sites.
- C. GET VPN must be used, because private IP addresses cannot be transferred with DMVPN through the public Internet.
- D. DMVPN must be used, because private IP addresses cannot be transferred with GET VPN through the public Internet.
- E. GET VPN must be used, because DMVPN does not support dynamic IP addresses for some sites.
- F. DMVPN must be used, because GET VPN does not support dynamic IP addresses for some sites.

**Answer:** D

#### NEW QUESTION 259

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

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

**Answer:** ACD

#### NEW QUESTION 261

Assume that no multicast optimization is done on LAN switches A and B. Which two features can be used to optimize multicast traffic forwarding in this situation? (Choose two.)

- A. Enable IGMP snooping querier on both switches.
- B. Configure a static MAC entry for the multicast server.
- C. Disable IGMP snooping on both switches.
- D. Disable the IGMP query election process.
- E. Enable PIM snooping on both switches.

**Answer:** AC

#### NEW QUESTION 263

What is an advantage of placing the IS-IS flooding domain boundary at the core Layer in a three-layer hierarchical network?

- A. The L1 and L2 domains can easily overlap
- B. The L2 domain is contained and more stable
- C. It can be applied to any kind of topology
- D. It reduces the complexity of the L1 domains

**Answer:** A

#### NEW QUESTION 267

How can EIGRP topologies be designed to converge as fast as possible in the event of a point-to-point link failure?

- A. Build neighbor adjacencies in a triangulated fashion
- B. Build neighbor adjacencies in a squared fashion
- C. Limit the query domain by use of distribute lists
- D. Limit the query domain by use of summarization
- E. Limit the query domain by use of default routes

Answer: D

#### NEW QUESTION 269

Which two statements about VXLAN are true? (Choose two)

- A. VXLAN is a Cisco proprietary solution
- B. VXLAN is an encapsulation method used to create a Layer 3 overlay network
- C. VXLAN can be used to enforce Layer 2 isolation in a multitenant infrastructure
- D. VXLAN uses the Spanning Tree protocol for loop prevention
- E. VXLAN overcomes the 802.1Q virtual LAN address space limitation

Answer: BE

#### NEW QUESTION 274

A new video multicast application is deployed in the network. The application team wants to use the 239.0.0.1 multicast group to stream the video to users. They want to know if this choice will impact the existing multicast design. What impact will their choice have on the existing multicast design?

- A. Because 239.0.0.1 is a private multicast range, a flood of PIM packets that have to be processed by the CPU and hosts will be sent by the routers in the network.
- B. Because 239.0.0.1 is a private multicast range, the rendezvous point has to send out constant group updates that will have to be processed by the CPU and hosts.
- C. The multicast application sends too many packets into the network and the network infrastructure drops packets.
- D. The 239.0.0.1 group address maps to a system MAC address, and all multicast traffic will have to be sent to the CPU and flooded out all ports.

Answer: B

#### NEW QUESTION 275

VPLS is implemented in a Layer 2 network with 2000 VLANs. Which must be the primary concern to ensure successful deployment of VPLS?

- A. The underlying transport mechanism
- B. PE scalability
- C. Flooding is necessary to propagate MAC address reachability information
- D. VLAN scalability

Answer: C

#### Explanation:

[ I think B not 100% sure]

#### NEW QUESTION 280

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. A feasible successor must be present
- D. The feasible Distance from a successor is lower than the local Reported Distance
- E. The feasibility condition do not need to be met

Answer: AC

#### NEW QUESTION 285

A company requires to connect two data center sites using a hub-and-spoke design. There are 2000 remote sites. It is required to transfer MPLS labeled packets over the public Internet using one router at each remote site. These MPLS labeled packets must be encapsulated inside IP packets. Which solution must be used to simplify this network design?

- A. GET VPN encrypts the MPLS packets with IPsec.
- B. DMVPN dynamically builds GRE tunnels with MPLS encapsulation inside.
- C. Site-to-site IPsec without GRE encapsulates the MPLS packets.
- D. PPPoE encapsulates the MPLS packets
- E. L2TPv3 encapsulated the MPLS packets

Answer: B

#### NEW QUESTION 287

Which three different behaviors must a network designer expect when bidirectional PIM is used instead of PIM Sparse Mode? (Choose three)

- A. The source IP addresses from the multicast senders cannot be seen in the multicast routing table
- B. The RPF check does not prevent routing loops when bidirectional PIM is used
- C. Many possible rendezvous point can be used for bidirectional PIM as compared to PIM Sparse Mode
- D. PIMv2 BSR is not supported with bidirectional PIM
- E. The join messages to join a bidirectional PIM multicast group are different compared to PIM-SM
- F. No rendezvous point is required when bidirectional PIM is used
- G. Auto-RP is not supported with bidirectional PIM

**Answer:** ADE

**NEW QUESTION 292**

Which are two open-source SDN controllers? (Choose two)

- A. Big Cloud Fabric
- B. OpenContrail
- C. Application Policy Infrastructure Controller
- D. Virtual Application Networks SDN controller
- E. OpenDaylight

**Answer:** BE

**NEW QUESTION 296**

A service provider must provide Internet connectivity to an MPLS Layer 3 VPN customer. Which solution allows this customer to have Internet access?

- A. Implement a global default route with a next hop in the VRF late on PE
- B. Implement policy-based routing between PE and CE
- C. Implement a default route in the VRF with a next hop in the global routing table of PE
- D. Implement destination NAT between the VRF and the global RIB of PE

**Answer:** C

**NEW QUESTION 299**

In a VPLS design solution, which situation indicates that BGP must be used instead of LDP in the control plane?

- A. MAC address learning scales better through BGP
- B. BGP supports VPLS interworking
- C. Pseudowire configuration overhead is reduced
- D. There are no full-mesh pseudowire due to the route reflection feature of BGP

**Answer:** A

**NEW QUESTION 301**

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

- A. Infrastructure ACLs
- B. Control Plane Policing
- C. Redundant AAA servers
- D. Disable unused services
- E. Routing protocol authentication
- F. SNMPv3
- G. Warning banners

**Answer:** AB

**NEW QUESTION 303**

Which solution prevents microloops from be formed during network convergence time?

- A. RSVP-TE
- B. LFA
- C. Prefix suppression
- D. RLFA

**Answer:** D

**NEW QUESTION 307**

Which statement about SDN framework environment is true?

- A. The control plane functions is split between a SDN controller and the networking element
- B. The data plane is pulled from the networking element and put in a SDN controller
- C. The data plane is controlled by a centralized SDN element
- D. The control plane is pulled from the networking element and put in a SDN controller
- E. The control plane and data plane is pulled from the networking element and put in a SDN controller and SDN agent

**Answer:** D

**NEW QUESTION 311**

How can jitter be compensated on an IP network that carries real-time VoIP traffic with acceptable voice transmission quality?

- A. Set up VAD to replace gaps on speech with comfort noise
- B. Change CODEC from G.729 to G.711

- C. Deploy RSVP for dynamic VoIP packet classification
- D. Set up a playout buffer to play back the voice stream

**Answer:** D

**NEW QUESTION 313**

In a network with dynamic mutual redistribution between multiple OSPFv2 and EIGRP boundaries, which two mechanisms avoid suboptimal routing? (Choose two)

- A. Route filtering
- B. AD manipulation
- C. Matching EIGRP process ID
- D. Matching OSPF external routes
- E. Route tagging

**Answer:** AE

**NEW QUESTION 316**

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

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

**Answer:** D

**NEW QUESTION 317**

In an Ethernet link containing five routers with OSPF network interface type configured as broadcast, how many OSPF adjacencies are established on this Ethernet link?

- A. 7
- B. 5
- C. 10
- D. 20
- E. 6

**Answer:** A

**NEW QUESTION 320**

DRAG DROP

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**NEW QUESTION 323**  
DRAG DROP

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**NEW QUESTION 326**  
DRAG DROP

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**NEW QUESTION 327**  
DRAG DROP

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**NEW QUESTION 330**  
DRAG DROP

You are designing a new data center network. Drag and drop new data center requirements on the left into the appropriate design principle on the right.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**NEW QUESTION 333**

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