

300-420^{Q&As}

Designing Cisco Enterprise Networks (ENSLD)

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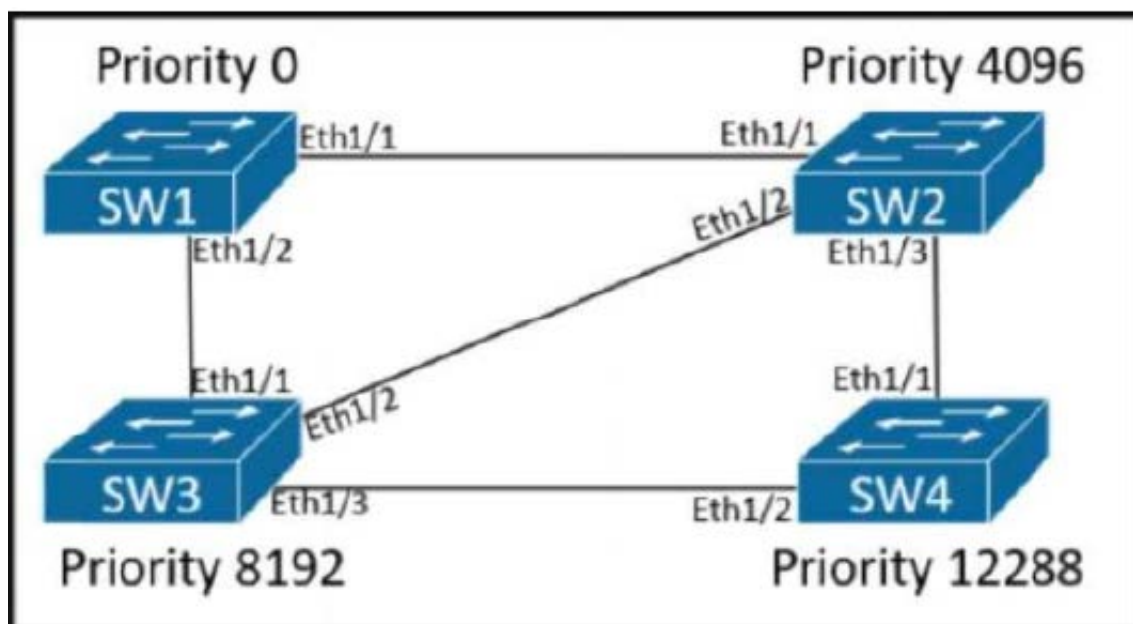
QUESTION 1

Which function does the Cisco SD-Access intermediate node perform?

- A. Act as LISP proxy tunnel router.
- B. Route and transport IP traffic.
- C. Act as an anycast Layer 3 gateway.
- D. Map users to a virtual network.

Correct Answer: B

QUESTION 2



Refer to the exhibit. An engineer proposed this solution for a company that requires a loop-free, Layer 2 network design. The network will run 802.1w, and all links will be 1 Gbps. If all interfaces are up as point-to-point adjacencies, what are the expected port end states based on the design?

- A. Eth1/2 on SW3 and SW4 will be in an Altn BLK state
- B. Eth1/3 on SW2 and SW3 will be in an Altn BLK state
- C. Eth1/2 on SW2 and SW3 will be in a Desg FWD state
- D. Eth1/1 on SW1 and SW2 will be in a Root FWD state

Correct Answer: A

QUESTION 3

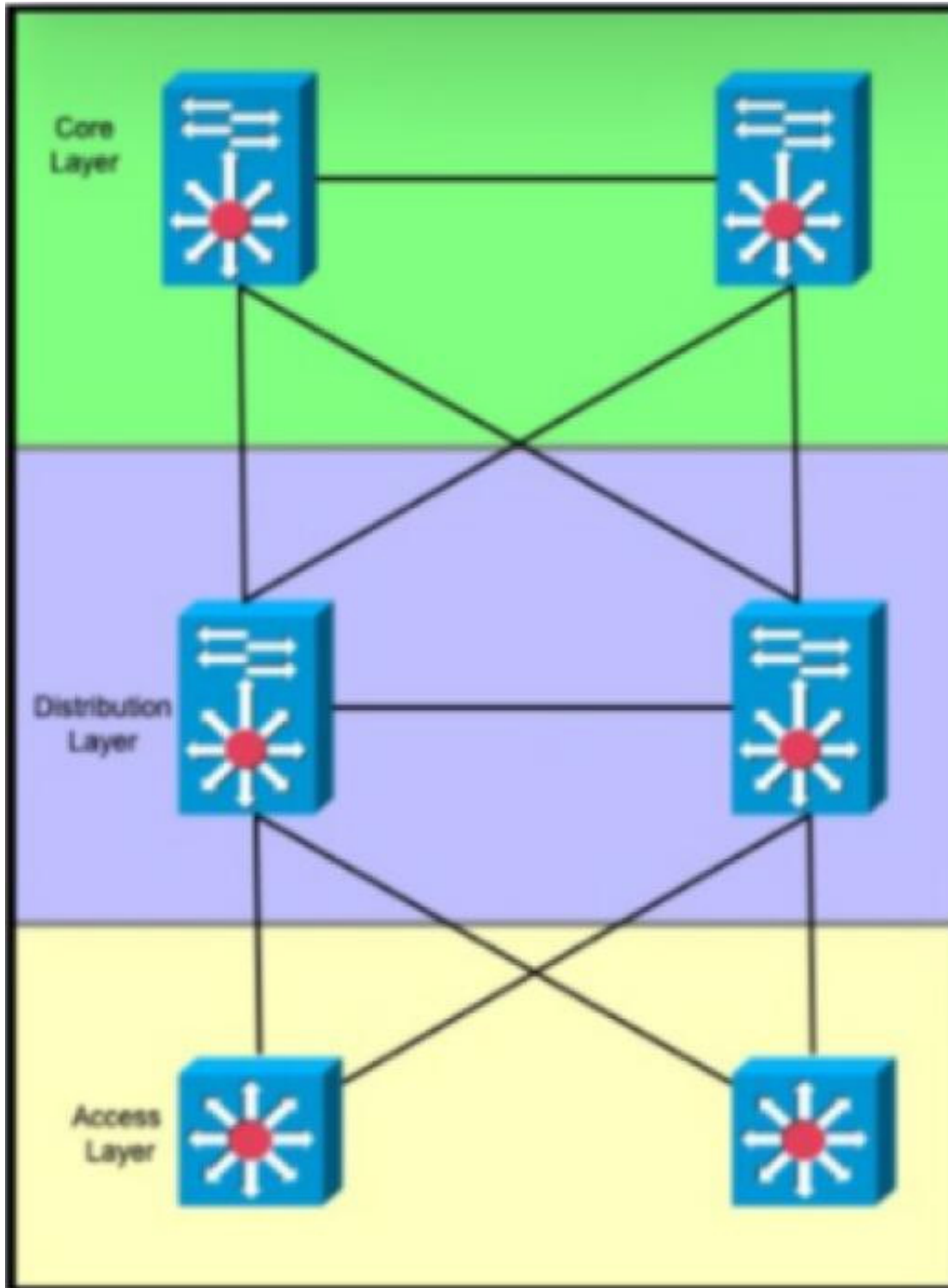
An engineer is designing a QoS solution for a campus. The design must guarantee real-time traffic delivery during congestion, minimize the bandwidth consumption for possible virus or worm attacks, and reduce flooding of excessive traffic during times of congestion. Which two solutions must the engineer select? (Choose two.)

- A. Create a policing policy to drop excessive traffic and a strict queue for real-time traffic
- B. Apply queuing on the distribution to core links
- C. Create a scavenger queue for excessive traffic and a strict queue for real-time traffic
- D. Apply queuing on the access to distribution links
- E. Create a shaping policy to drop excessive traffic and a strict queue for real-time traffic

Correct Answer: CD

QUESTION 4

Refer to the exhibit.



An engineer is designing a multicampus Layer 3 Infrastructure using EIGRP as the routing protocol. The design must provide quick replies to queries. In the event of a downlink, prevent unnecessary queries, and ensure that traffic does not unnecessarily transit the access layer. Which two actions must the engineer take for the network design? (Choose two.)

- A. Configure core layer switches as stub routers.
- B. Configure distribution layer switches to summarize routes to the core layer.

- C. Configure access layer switches as stub routers.
- D. Configure access layer and core layer switches as stub routers.
- E. Configure access layer switches to summarize routes to the distribution layer.

Correct Answer: BC

QUESTION 5

An engineer is designing a network for a customer running a wireless network with a common VLAN for all APs. The customer is experiencing unicast flooding in the Layer 2 network between the aggregation and access layers. The customer wants to reduce the flooding and improve convergence time. Which solution meets these requirements?

- A. Migrate all APs to a common Layer 2 access layer switch and run Layer 3 from the aggregation layer to all remaining access layer switches.
- B. Align HSRP primary and STP root bridges and reduce ARP timers to match CAM timers on the aggregation layer switches.
- C. Migrate to a Layer 3 access campus design if the APs can run on separate VLANs.
- D. Align HSRP primary and STP root bridges if the APs cannot run on separate VLANs.

Correct Answer: B

QUESTION 6

A company has many spoke sites with two data centers. The company wants to exchange the routing information between the data centers and the spoke sites using EIGRP. All locations belong to a single AS, and auto-summarization is disabled. Which two actions must the company choose? (Choose two.)

- A. Split the network into two separate ASs.
- B. Exchange all routes between locations.
- C. Summarize the routes between the hubs.
- D. Make each spoke site router a stub router.
- E. Summarize the routes from spokes to the hubs.

Correct Answer: DE

QUESTION 7

DRAG DROP

Drag and drop the types of WAN connectivity from the left onto the connectivity use cases on the right.

Select and Place:

The initial interface shows three light blue boxes on the left: 'DWDM' (with a yellow highlight and a mouse cursor), 'SD-WAN customer edge', and 'Metro Ethernet'. On the right, an orange-bordered box titled 'WAN Connectivity Use Case' contains three yellow boxes: 'recommended for short-distance data center interconnect', 'recommended for long-distance data center interconnect', and 'recommended for connectivity to the data center'.

Correct Answer:

The correct answer interface shows three empty light blue boxes on the left. On the right, the 'WAN Connectivity Use Case' box now contains three light blue boxes: 'Metro Ethernet' at the top, 'DWDM' in the middle (with a yellow highlight and a mouse cursor), and 'SD-WAN customer edge' at the bottom.

QUESTION 8

Which two routing protocols allow for unequal cost load balancing? (Choose two.)

- A. EIGRP
- B. IS-IS
- C. BGP
- D. OSPF
- E. RIPng

Correct Answer: AC

QUESTION 9

Which type of rendezvous point deployment is standards-based and support dynamic RP discovery?

- A. Auto-RP
- B. Anycast-RP

C. bootstrap router

D. static RP

Correct Answer: C

QUESTION 10

DRAG DROP

Drag and drop the steps WAN Edge performs when on-boarded into the Cisco SD-WAN overlay from the left into the order they are completed on the right.

Select and Place:

Answer Area

WAN Edge authenticates to vBond.	Step 1
WAN Edge establishes an OMP session to vSmart.	Step 2
WAN Edge establishes a secure connection to vManage and vSmart.	Step 3
WAN Edge establishes IPsec connections to other TLOC locations.	Step 4

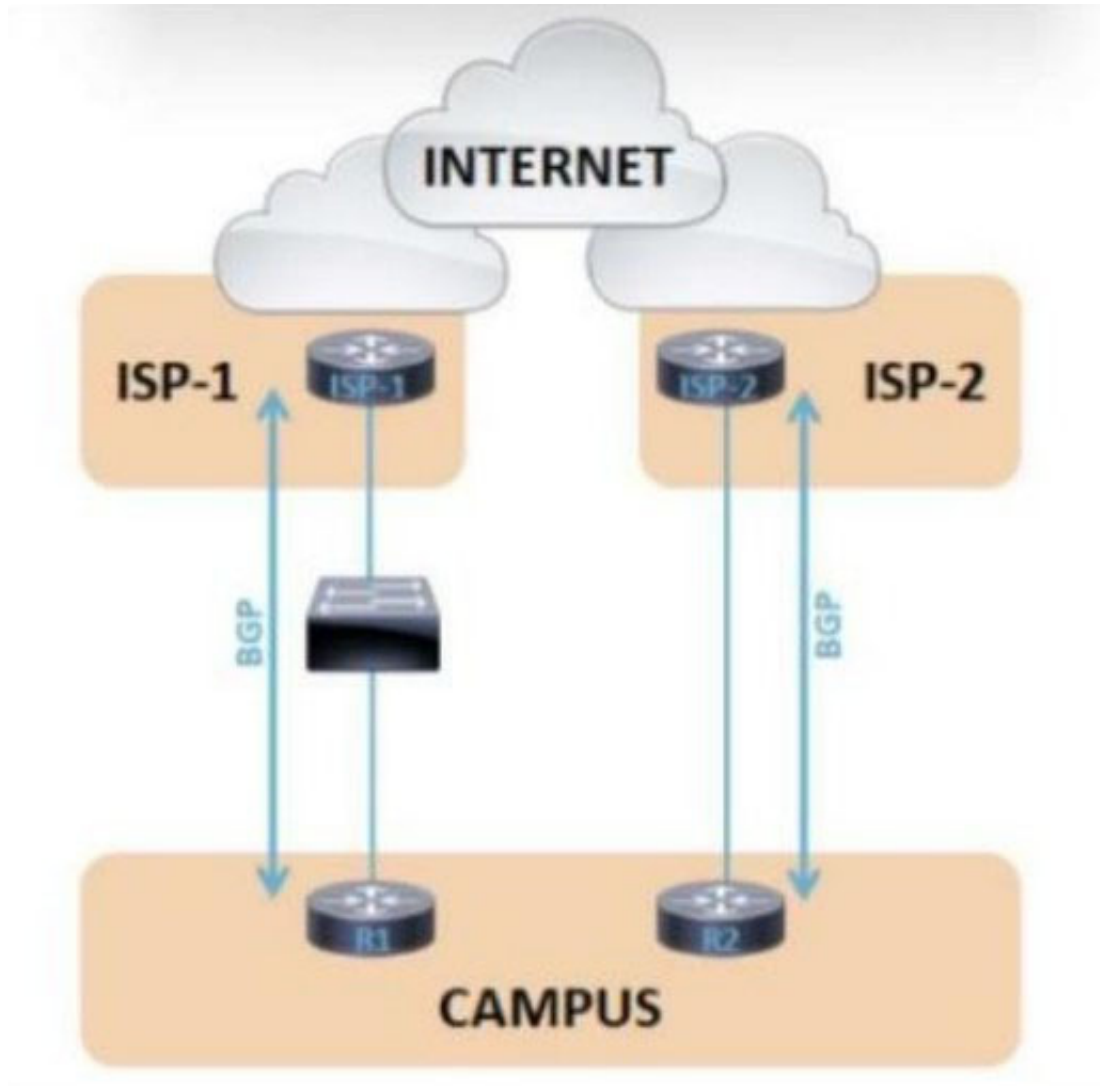
Correct Answer:

Answer Area

	WAN Edge authenticates to vBond.
	WAN Edge establishes a secure connection to vManage and vSmart.
	WAN Edge establishes an OMP session to vSmart.
	WAN Edge establishes IPsec connections to other TLOC locations.

QUESTION 11

Refer to the exhibit.



The failover time of ISP-2 is significantly shorter than ISP-1 when an interface on the ISP router toward the campus network fails. Which solution minimizes the downtime to the sub-second?

- A. Aggressive timers
- B. Next-hop address tracking
- C. Graceful-restart
- D. BFD

Correct Answer: D

BFD provides sub-second failure detection (<https://howdoesinternetwork.com/2018/bfd>), and next-hop tracking is enabled in IOS by default (https://www.cisco.com/c/en/us/td/docs/ios/12_2sb/feature/guide/sbbnhop.html) and has a 5 second delay by default. So, I strongly believe it's BFD

QUESTION 12

An engineer must design a solution to connect a customer to the Internet. The solution will include a Layer 3 circuit with a CIR of 50 Mbps from the service provider. The hand-off from the provider's switch to the customer's router is 1Gbps. Which solution should the engineer include to prevent potential issues with choppy voice traffic?

- A. Reduce the bandwidth of the connection to the router.
- B. Implement hierarchical QoS with a parent policing policy.
- C. Implement hierarchical QoS with a parent shaping policy.
- D. Add a bandwidth statement to the router interface.

Correct Answer: B

QUESTION 13

A customer requests a VPN solution to connect multiple sites with the company headquarters. All the sites use the same IP subnet. The engineer plans to use VPLS. Which solutions must the engineer include in the design?

- A. 802.1Q connectivity on the LAN side of the CE
- B. route exchange with the service provider
- C. address translation to hide overlapping subnets
- D. different VLANs on each site

Correct Answer: A

QUESTION 14

DRAG DROP

Drag and drop the model-driven telemetry considerations from the left onto the modes they apply to on the right.

Select and Place:

uses a transient connection

no need to open ports for inbound management traffic

anycast and load-balancing

single channel (config and streaming)

Dial-In Mode

Dial-Out Mode

Correct Answer:

Dial-In Mode

uses a transient connection

single channel (config and streaming)

Dial-Out Mode

anycast and load-balancing

no need to open ports for inbound management traffic

QUESTION 15

DRAG DROP

Drag and drop the model driven telemetry characteristics from the left onto the mode they belong to on the right.

Select and Place:

- Updates are sent to the collector.
- Updates are sent to the subscriber.
- Subscriptions must be re-initiated after a reload.
- Subscriptions are part of the device's configuration.

Dial-in

-
-

Dial-out

-
-

Correct Answer:

-
-
-
-

Dial-in

- Updates are sent to the subscriber.
- Subscriptions must be re-initiated after a reload.

Dial-out

- Updates are sent to the collector.
- Subscriptions are part of the device's configuration.