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takes full account of customers' needs in this area.

## Cisco Designing Cisco Enterprise Networks Sample Questions (Q218-Q223):

### NEW QUESTION # 218

Refer to the exhibit. A customer has two eBGP peerings from a single CE router toward two service providers. The customer has hired an architect to design a solution to ensure certain traffic enters the customer's network through interface gig0/0. Which solution must the architect include in the design?



- A. Prepend additional AS on the AS path toward the preferred service provider.
- **B. Break aggregated routes into longer prefixes and advertise to the preferred service provider.**
- C. Advertise a lower MED value toward the less preferred service provider.
- D. Set a higher local preference to the preferred service provider path.

**Answer: B**

### NEW QUESTION # 219

An engineer is upgrading a company's main site to include a connection to a second ISP. The company will receive full Internet routing tables from both ISPs via BGP. The engineer must ensure that the company does not become a transit autonomous system. Which solution should be included in this design?

- A. Lower the MED for updates sent to the secondary ISP.
- **B. Use a route-map to prevent all prefixes from being advertised to either ISP.**
- C. Tag incoming routes from both ISPs with BGP community no-export.
- D. Modify the local-preference for routes incoming from the primary ISP.

**Answer: B**

Explanation:

The company must prevent itself from advertising routes learned from one ISP to the other ISP. If it receives full Internet tables from both providers and then re-advertises those learned prefixes, it can unintentionally become a transit autonomous system. The proper BGP design is to apply outbound route policy so only the company's own originated prefixes are advertised to the ISPs, while routes learned from ISP1 are never advertised to ISP2 and routes learned from ISP2 are never advertised to ISP1. A route map or equivalent prefix filtering policy applied outbound to the ISP neighbors achieves that goal. Local preference influences outbound path selection inside the company AS; it does not prevent transit advertisements. MED influences how a neighboring AS may enter the company network, but it does not stop the company from advertising third-party routes. Tagging incoming routes with no-export is not as deterministic as simply filtering what is advertised to each provider and may still allow undesirable routing behavior within the directly connected provider. Therefore, the design should include outbound route filtering with a route map.

### NEW QUESTION # 220

A customer requires QoS to support multimedia conferencing over MPLS. The network architect chooses to use per-hop behavior. Which solution must the architect use to classify and mark traffic traveling between branch sites?

- A. BW Queue with DSCP AF3
- **B. BW Queue and DSCP WRED with DSCP AF4**
- C. BW Queue with DSCP AF4
- D. BW Queue and DSCP WRED with DSCP AF3

**Answer: B**

### NEW QUESTION # 221

An engineer must design a QoS solution for a customer that is connected to an ISP over a 1Gbps link with a 100Mbps CIR. The ISP aggressively drops all traffic received over which is causing numerous TCP retransmissions. The customer is not using any RTP applications but wants to maximize bandwidth usage up to the CIR. Which QoS solution engineer choose?

- A. Policing
- B. Policer with markdown
- C. Queuing
- **D. Traffic shaping**

**Answer: D**

Explanation:

<https://www.cisco.com/c/en/us/support/docs/quality-of-service-qos/qos-policing/19645-policevsshape.html> Traffic shaping limits the rate of traffic that is sent or received over a network connection by buffering and delaying the flow of data packets. This will help to ensure that the customer is not exceeding the 100Mbps CIR that the ISP has set and also prevent the aggressive dropping of traffic. Traffic shaping will also help to maximize the bandwidth usage while still staying within the limits of the CIR.

### NEW QUESTION # 222

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

**Answer: D**

Explanation:

The default ARP table aging time is 4 hours while the CAM holds the entries for only 5 minutes.

The switch sends out a frame to all forwarding ports within the respective VLAN when the destination MAC address is aged out from the CAM table. You need a CAM aging timer greater or equal to the ARP timeout in order to prevent unicast flooding.

<https://www.cisco.com/c/en/us/support/docs/switches/catalyst-6500-series-switches/71079-arp-tableissues.htm#:~:text=The%20default%20ARP%20table%20aging%20time%20is%204,ARP%20timeout%20in%20order%20to%20prevent%20unicast%20flooding>

### NEW QUESTION # 223

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