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**Vendor:**Cisco

**Exam Code:**300-320

**Exam Name:**Designing Cisco Network Service  
Architectures

**Version:**Demo

### QUESTION 1

Two recently merged companies are using EIGRP and RIP. Which two strategies can facilitate a smooth migration? (Choose two.)

- A. Create an OSPF instance between EIGRP and RIP routing domains.
- B. Redistribute routing information between the RIP and EIGRP protocols.
- C. Add EIGRP and then remove RIP on the acquired company network.
- D. Use the EIGRP administrative distance to migrate one site at a time.
- E. Use static routes in place of dynamic routing between companies.

Correct Answer: CD

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### QUESTION 2

The WAN link between HQ and Branch.

What Technology that to be routed in a more informed way?

- A. Policy base routing
- B. On demand routing
- C. Static routing
- D. Performance routing

Correct Answer: D

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### QUESTION 3

Refer to the exhibit.

```

class-map match-all Video_Class
  match ip dscp af41
class-map match-all Voice_Class
  match ip dscp ef
class-map match-all Signaling_Class
  match ip dscp cs3
!
policy-map Collaboration
  class Video_Class
    police 500000 8000 conform-action transmit
  exceed-action set-dscp-transmit cs1
  class Signaling_Class
    police 48000 8000 conform-action transmit
  exceed-action set-qos-transmit 1
  class Voice_Class
    police 289000 8000 conform-action transmit
  exceed-action drop
  class class-default
    set dscp default
!
interface gig0/1
  service-policy output Collaboration

```

How does the network treat excess SIP traffic when congestion occurs?

- A. It queues the traffic by using a DSCP value of CS1.
- B. It assigns the default DSCP value to the traffic.
- C. It drops the traffic.
- D. It transmits the traffic by using a QoS value of 1.

Correct Answer: D

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#### QUESTION 4

What three benefits exist when utilizing Cisco Nexus technology for implementing a unified fabric design? (Choose three.)

- A. reduced cabling
- B. fewer adapters
- C. consolidated switching

- D. increased bandwidth
- E. enhanced redundancy
- F. improved convergence

Correct Answer: ABC

<https://www.safaribooksonline.com/library/view/foundation-learning-guide/9780132652933/ch06.html> "Benefits of a unified fabric include the following:

**Reduced cabling:** Multiple Fibre Channel and Ethernet connections can be replaced with a single 10 Gigabit Ethernet connection or a dual 10 Gigabit Ethernet connection for redundancy. In many cases, access layer cabling can be reduced

by 50 percent, or even more if the server uses multiple 1 Gigabit Ethernet connections.

**Fewer access layer switches:** In a typical top-of-rack (TOR) design, shown at the top of Figure 6-20, each rack contains at least four separate switches: two Ethernet switches to support redundant LAN connections and two Fibre Channel

switches to support redundant SAN connections. By consolidating LAN and SAN connectivity on a single network, as shown in the lower part of Figure 6-20, each rack needs just two access switches that can provide both redundant LAN and

SAN connectivity.

**Fewer network adapters per server:** By combining LAN and SAN connectivity on a single 10 Gigabit Ethernet adapter, the number of network adapters that need to be installed in each server is heavily reduced. A single converged network adapter (CNA) can replace the combination of a Fibre Channel HBA and one or more Gigabit Ethernet adapters.

**Power and cooling savings:** Reducing the number of access switches per rack and the number of network adapters per server leads to a reduced demand for power. The less power that is used, the less heat that is generated. This also leads

to a reduction in cooling requirements. The lower number of access layer cables can also improve airflow in the data center, which can lead to more efficient use of the available cooling. **Management integration:** Combining LAN, SAN, and

interprocess communication (IPC) networks on a single network infrastructure not only reduces the number of managed devices but also the overall management complexity.

**Wire once:** Using a single type of connection, such as 10 Gigabit Ethernet, for LAN, SAN, and IPC eliminates the need to recable racks to provision storage or network connectivity to a server.

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## QUESTION 5

What are two benefits of migrating from a vPC design to FabricPath? (Choose two.)

- A. infrastructure scalability
- B. lower latency
- C. ease of configuration

- D. network stability
- E. easy to manage

Correct Answer: AD

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#### QUESTION 6

A network design team tasked to address congestion, QoS has been implemented but no longer effective? (Choose two)

- A. Bundle additional uplinks into logical etherchannels
- B. Configure selective packet discard to drop non-critical network traffic
- C. Implement highspeed uplink interfaces
- D. Reconfigure QoS based on intserv
- E. Utilize random early detection

Correct Answer: AC

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#### QUESTION 7

Which of the following two are effective and simple means of employing route summarization within the Enterprise Campus network? (Choose two)

- A. A default route (0.0.0.0 /0) advertised dynamically into the rest of the network
- B. Route filtering to manage traffic flows in the network, avoid inappropriate transit traffic through remote nodes, and provide a defense against inaccurate or inappropriate routing updates
- C. Use manual split horizon
- D. Use a structured hierarchical topology to control the propagation of EIGRP queries
- E. Open Shortest Path First (OSPF) stub areas

Correct Answer: AE

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#### QUESTION 8

Which protocol is used in an in-band network and why?

- A. UDP, because it is connectionless
- B. SSH, because the username and password are encrypted
- C. Telnet, because the username and password are sent in clear

D. MSDP, because it uses TCP as its transport protocol

Correct Answer: B

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#### **QUESTION 9**

What data center network layer provides service module integration, Layer 2 domain definitions, and default gateway redundancy?

- A. core
- B. aggregation
- C. access
- D. edge

Correct Answer: B

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#### **QUESTION 10**

Which two of these correctly describe asymmetric routing and firewalls? (Choose two.)

- A. only operational in routed mode
- B. only operational in transparent mode
- C. only eight interfaces can belong to an asymmetric routing group
- D. operational in both failover and non-failover configurations
- E. only operational when the firewall has been configured for failover

Correct Answer: CD

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#### **QUESTION 11**

Which option is a design recommendation for route summarizations?

- A. Filtered redistribution for the prevention of re-advertising of routes
- B. Routing protocol stub areas
- C. Route summarization for scalable routing and addressing design
- D. Defensive route filtering to defence against inappropriate routing traffic
- E. Route summarization to support greater volumes of transit traffic

Correct Answer: C

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**QUESTION 12**

An engineer is configuring QoS to meet the following requirement. All traffic that exceeds the allocated bandwidth will still traverse the infrastructure, but will be buffered and queued for later transmission. Which QoS tool meets these requirements?

- A. Per-Hop behaviours
- B. Weighted Fair Queuing
- C. IP Precedence
- D. Shaping

Correct Answer: D

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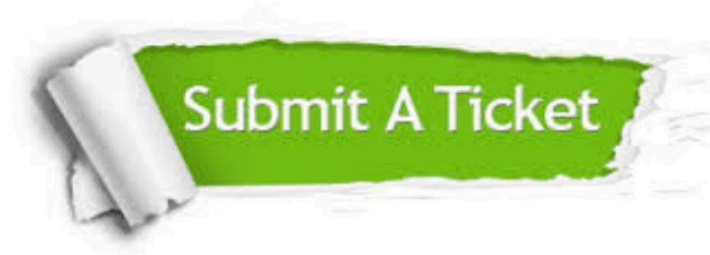
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