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QUESTION 1

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 work 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.

Correct Answer: A

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. the logical topology can be full mesh, even if the underlying IP transport is not

QUESTION 2

Refer to the exhibit.



The enterprise customer wants to stream one-way video from their head office to eight branch offices using multicast. Their current service provider provides a Layer3 VPN solution and manages the CE routers, but they do not currently support multicast. Which solution quickly allows this multicast traffic to go through while allowing for future scalability?

- A. Enable a GRE tunnel between nodes CE1 and CE2
- B. Enable a GRE tunnel between nodes C2 and C4
- C. Enable a GRE tunnel between nodes C1 and C4
- D. Implement hub and spoke MPLS VPN over DMVPN (also known as 2547o DMVPN) between CE1 and CE2
- E. The service provider must provide a Draft Rosen solution to enable a GRE tunnel between nodes PE1 and PE2

Correct Answer: B

<https://www.cisco.com/c/en/us/support/docs/ip/ip-multicast/43584-mcast-over-gre.html>

QUESTION 3

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

Correct Answer: D

-HIPAA's data integrity requirements, protecting ePHI from "improper alteration" while stored or while in transit
-"integrity" means that e-PHI is not altered or destroyed in an unauthorized manner.

With no transmission security data might be altered in transit, even with proper admin access.

QUESTION 4

An existing wireless network was designed to support data traffic only. You must now install context Aware services for location tracking changes must be applied to the existing wireless network to increase the location accuracy? (Chose two)

- A. Add access points along the perimeter of the coverage area.
- B. Increase the access point density to create an average inter-access point distance of less than 40 feet or 12.2 meters
- C. Use directional antennas to provide more cell overlapping
- D. Install additional access points in monitor mode where the co-channel interference would otherwise be affected
- E. Fine tune the radio configuration of the access point to have a higher average transmission power to achieve better coverage

Correct Answer: BE

QUESTION 5

You were tasked to enhance the security of a network with these characteristics:

A pool of servers is accessed by numerous data centers and remote sites The servers are accessed via a cluster of firewalls The firewalls are configured properly and are not dropping traffic The firewalls occasionally cause asymmetric routing of traffic within the server data center.

Which technology should you recommend to enhance security by limiting traffic that could originate from a hacker compromising a workstation and redirecting flows at the servers?

- A. Poison certain subnets by adding static routes to Null0 on the core switches connected to the pool of servers.

- B. Deploy uRPF strict mode.
- C. Limit sources of traffic that exit the server-facing interface of the firewall cluster with ACLs.
- D. Deploy uRPF loose mode

Correct Answer: C

QUESTION 6

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. 233.0.0.0 to 233.255.255.255
- C. 239.0.0.0 to 239.255.255.255
- D. 224.0.0.0 to 224.255.255.255

Correct Answer: B

QUESTION 7

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

Correct Answer: C

QUESTION 8

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 multipoint 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

Correct Answer: B

QUESTION 9

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

Correct Answer: C

QUESTION 10

The Layer 3 control plane is the intelligence over the network that steers traffic toward its intended destination. Which two techniques can be used in service provider-style networks to offer a more dynamic, flexible, controlled, and secure control plane design? (Choose two.)

A. access control lists

B. firewalls

C. QoS policy propagation with BGP

D. remote black-holing trigger

E. prefix lists

Correct Answer: DE

QUESTION 11

How many fully established neighbour relationships exist on an Ethernet with five routers running OSPF as network type broadcast?

A. 5

B. 6

- C. 7
- D. 10
- E. 20

Correct Answer: C

Assuming routers R1-R5, R1 is elected DR, R2 BDR. Fully established neighborships only occur to DR and BDR, all other neighbors are in 2Way DR other state. DR|BDRFull relationships: R2-R1 R3-R1 R3-R2 R4-R1 R4-R2 R5-R1 R5-R2

QUESTION 12

You are designing the QoS policy for a company that is running many TCP-based applications. The company is experiencing tail drops for these applications. The company wants to use a congestion avoidance technique for these applications. Which QoS strategy can be used to fulfill the requirement?

- A. weighted fair queuing
- B. weighted random early detection
- C. low-latency queuing
- D. first-in first-out

Correct Answer: B

QUESTION 13

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

Correct Answer: BD

QUESTION 14

Company XYZ network runs IPv4 and IPv6 and they want to Introduce a multidomain, multicast-based network. The new design should use a flavor of PIM that forwards traffic using SPT. Which technology meets this requirement?

- A. PIM-DM

- B. PIM-SM
- C. PIM-SSM
- D. BIDIR-PIM

Correct Answer: C

QUESTION 15

A business wants to refresh its legacy Frame Relay WAN. It currently has product specialists in each of its 200 branches but plans to reduce and consolidate resources. The goal is to have product specialists available via video link when customers visit the nationwide branch offices. Which technology should be used to meet this objective?

- A. DMVPN phase 1 network over the Internet
- B. Layer 3 MPLS VPN hub and spoke
- C. Layer2VPLS
- D. Layer 3 MPLS VPN full mesh

Correct Answer: D

a branch with specialist and a branch with customer can be in same geo area, it's not optimal to push traffic to a hub.

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