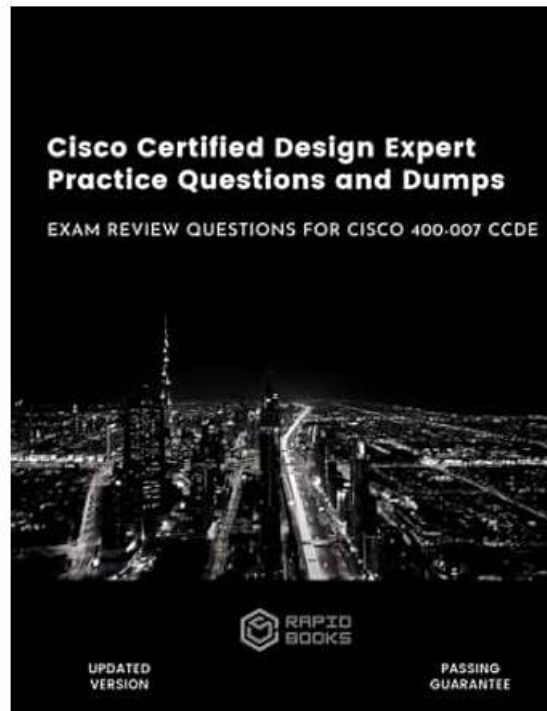# 400-007 exam questions: Cisco Certified Design Expert (CCDE) Written Exam & 400-007 study materials

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Cisco Certified Design Expert (CCDE) Written Exam Sample Questions (Q380-Q385):

NEW QUESTION # 380
A customer has a functional requirement that states HR systems within a data center should be segmented from other systems that reside in the same data center and same VLAN. The systems run legacy applications by using hard-coded IP addresses. Which segmentation method is suitable and scalable for the customer?

- A. VACLs on data center switches
- B. Routed firewalls
- C. Data center perimeter firewalling
- D. Transparent firewalling

Answer: D

Explanation:
* C (Transparent firewalling):Transparent (Layer 2) firewalls operate at the data link layer and allow segmentation and inspection of intra-VLAN traffic without requiring changes to the existing IP addressing. This is ideal for legacy environments where IP addresses are hard-coded, while still providing fine-grained security policies between applications in the same subnet.
Other options explained:
* A: Perimeter firewalls cannot segment east-west traffic within a VLAN.
* B: VACLs provide basic filtering but are not as scalable or flexible as transparent firewalls for stateful inspection.
* D: Routed firewalls require Layer 3 boundaries, which would conflict with hard-coded IP design.

NEW QUESTION # 381
Company XYZ has 30 sites running a legacy private WAN architecture that connects to the Internet via multiple high- speed connections The company is now redesigning their network and must comply with these design requirements :
* Use a private WAN strategy that allows the sites to connect to each other directly and caters for future expansion.
* Use the Internet as the underlay for the private WAN.
* Securely transfer the corporate data over the private WAN.
Which two technologies should be Incorporated into the design of this network? (Choose two.)

- A. S-VTI
- B. IPsec
- C. DMVPN
- D. GET VPN
- E. PPTP

Answer: B,C

NEW QUESTION # 382
How many fully established neighbour relationships exist on an Ethernet with five routers running OSPF as network type broadcast?

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4

Answer: A

Explanation:
When OSPF operates over a broadcast network (such as Ethernet), it uses the DR (Designated Router) and BDR (Backup Designated Router) mechanism to reduce adjacency overhead. Instead of forming full mesh adjacencies, OSPF routers establish full neighbor relationships only with the DR and BDR.
For five routers:

* Each router establishes a full adjacency with the DR and the BDR.
* The DR and BDR also establish adjacency with each other.
* Total number of fully established adjacencies = 5 (each router to DR/BDR).
Partial adjacencies (2-way) may exist among DROther routers, but those are not fully established neighbor relationships (i.e., not exchanging LSDBs).
This design behavior is emphasized in CCDE v3.1 to avoid excessive LSDB flooding and optimize control- plane scaling.
Why other options are incorrect:
* B, C, D, E: These assume full mesh adjacencies or incorrect OSPF behavior for broadcast networks.
-

NEW QUESTION # 383

Refer to the exhibit: A customer is migrating from a TDM-based Layer 2 VPN (L2VPN) to an MPLS Layer 3 VPN (L3VPN) in phases. The backbone OSPF connection between HUB A and HUB B will be replaced by eBGP. During the migration, some spokes (A2 and B1) are already moved to the L3VPN. The goal is to avoid routing loops during this hybrid transition.
Which design choice helps prevent routing loops during the backbone link migration?

* A. OSPF backbone area advertises summarized routes to hub
* B. Advertise low AD value for transit traffic on hub sites
* C. Enable route filtering on OSPF backbone routers for spoke traffic
* D. Redistribute EIGRP 200 and 300 with low cost into BGP

Answer: C

Explanation:
Comprehensive Explanation:
* A: In hybrid WAN designs where routing domains are gradually migrating from OSPF to BGP, particularly with overlapping domains or redistribution points, loops can occur if the same routes are seen via multiple protocols (e.g., BGP and OSPF). Implementing route filtering on the OSPF backbone prevents it from learning and advertising spoke routes that it also receives via BGP-eliminating the loop scenario.
* B: Advertising a low administrative distance (AD) for transit traffic does not prevent loops and may worsen convergence or cause routing inconsistency.
* C: Summarizing OSPF routes may reduce the routing table size, but it does not solve the loop issue caused by dual protocol redistribution unless filtering is applied.
* D: Redistributing EIGRP routes into BGP with a low cost might cause preference toward one path but does not address the loop risk between the hybrid segments (OSPF and BGP).
This is a classic use case for route filtering in dual-protocol or dual-backbone migrations, where ensuring consistent path selection and loop prevention is essential.

NEW QUESTION # 384

The network team in XYZ Corp wants to modernize their infrastructure and is evaluating an implementation and migration plan to allow integration MPLS-based, Layer 2 Ethernet services managed by a service provider to connect branches and remote offices.
To decrease OpEx and improve response times when network components fail, XYZ Corp decided to acquire and deploy new routers. The network currently is operated over E1 leased lines (2 Mbps) with a managed CE service provided by the telco.
Drag and drop the implementation steps from the left onto the corresponding targets on the right in the correct order.

Answer:

Explanation:

NEW QUESTION # 385

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