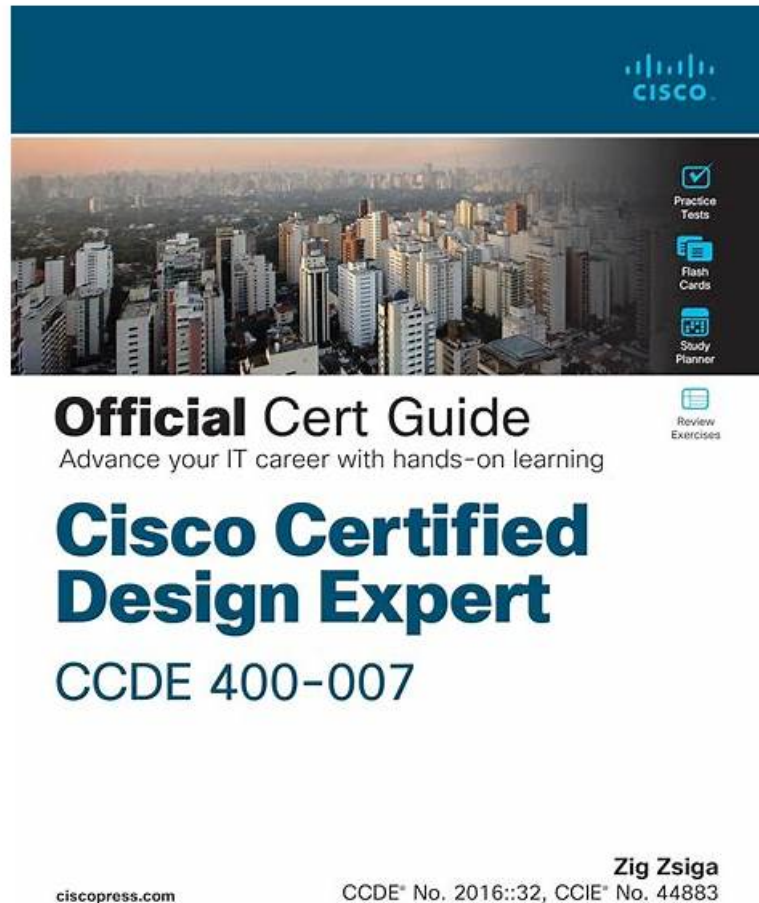


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Cisco Certified Design Expert (CCDE v3.0) Written Exam Sample Questions (Q38-Q43):

NEW QUESTION # 38

Which two mechanisms avoid suboptimal routing in a network with dynamic mutual redistribution between multiple OSPFv2 and EIGRP boundaries? (Choose two.)

- A. Matching EIGRP process ID
- B. Route filtering
- C. Route tagging
- D. Matching OSPF external routes
- E. AD manipulation

Answer: C,E

Explanation:

Mutual redistribution between different routing protocols can cause routing loops and suboptimal routing due to:

- * Route feedback loops (routes being re-imported back into the originating protocol).
- * Inconsistent administrative distances (AD) leading to selection of suboptimal paths.

Two key mechanisms avoid these issues:

- * A. Administrative Distance (AD) manipulation: Ensures that one protocol is consistently preferred over the other when duplicate routes exist.
- * C. Route tagging: Assigns tags to redistributed routes to identify the source of the route and prevent re- importation (looping) into the originating protocol.

These methods align with CCDE v3.1 principles for multi-protocol control plane design and stability.

Why other options are incorrect:

- * B & F: Matching routes or process IDs do not directly prevent loops or suboptimal routing.
- * D is a duplicate of C.
- * E: Filtering helps but is reactive, not a comprehensive prevention mechanism.

-

NEW QUESTION # 39

Which component of the SDN architecture automatically ensures that application traffic is routed according to policies established by network administrators?

- A. Northbound API
- B. Southbound API
- C. Packet forwarding engine
- D. SDN controller

Answer: D

Explanation:

The SDN architecture separates the control plane from the data plane. In this model, the SDN controller is the central element responsible for:

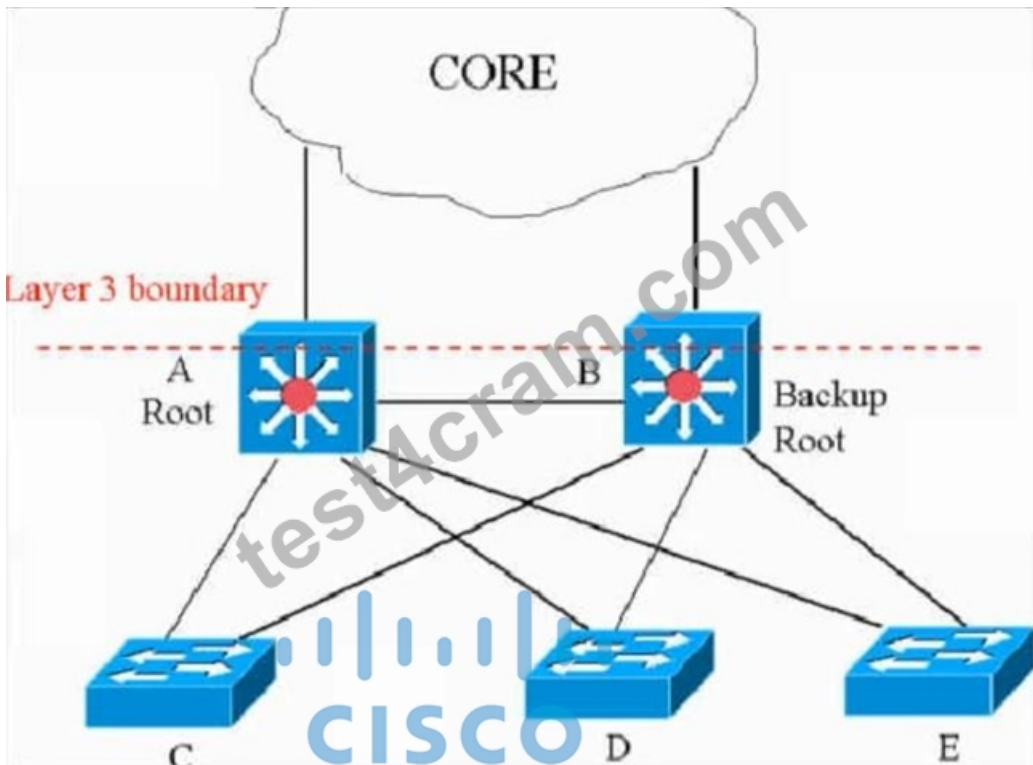
- * Receiving application intent via northbound APIs
- * Translating intent into traffic policies
- * Communicating with infrastructure devices using southbound APIs

The SDN controller enforces policies such as path selection, QoS, and access control rules across the network fabric, ensuring traffic flows align with administrator-defined logic. Neither northbound nor southbound APIs enforce policy themselves; they serve as communication interfaces.

The packet forwarding engine (Option A) simply performs data-plane functions based on instructions, but does not interpret or apply policies.

NEW QUESTION # 40

Refer to the exhibit.



This network is running legacy STP 802.1d. Assuming "hello_timer" is fixed to 2 seconds, which parameters can be modified to speed up convergence times after single link/node failure?

- A. The transit_delay=5 and dpdu_delay=20 are recommended values, considering helto_timer=2 and specified
- B. Only the transit_delay and bpdu_delay timers are configurable parameters in 802.1d to speed up STP convergence process.
- C. Only the maximum_transmission_halt_delay and diameter parameters are configurable parameters in 802. to speed up STP convergence process
- D. The max_age and forward delay parameters can be adjusted to speed up STP convergence process.

Answer: D

NEW QUESTION # 41

Which action must be taken before new VoIP systems are implemented on a network to ensure that the network is ready to handle the traffic?

- A. Enable special requirements such as direct DID lines on pickup
- B. Check if anomaly detection is enabled for SIP and H.323 on Layer 3 devices
- C. Make recommendations to limit the size of the half-open session table on routers
- D. Evaluate bandwidth utilization and connection quality

Answer: D

NEW QUESTION # 42

A business invests in SDN and develops its own SDN controller that, due to budget constraints, runs on a single controller. The controller actively places an exclusive lock on the configuration of the devices to ensure it is the only source of changes to the environment. What is the result if the controller fails?

- A. Manual changes are only possible until the controller is restored
- **B. The control plane is unavailable until the controller is restored.**
- C. If a device fails, the configuration backup is unavailable-
- D. All device configurations are in read-only mode until the controller is restored.

Answer: B

NEW QUESTION # 43

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