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## Cisco Certified Design Expert (CCDE v3.0) Written Exam Sample Questions (Q67-Q72):

### NEW QUESTION # 67

Which solution component helps to achieve rapid migration to the cloud for SaaS and public cloud leveraging SD-WAN capabilities?

- A. Microservices in the cloud
- B. Service-oriented cloud architecture
- C. Cloud registry
- **D. Cloud OnRamp**

**Answer: D**

Explanation:

\* B (Cloud OnRamp): Cloud OnRamp extends SD-WAN capabilities to optimize SaaS and IaaS connectivity, offering dynamic path selection, performance monitoring, and improved user experience when migrating to cloud services.

Other options explained:

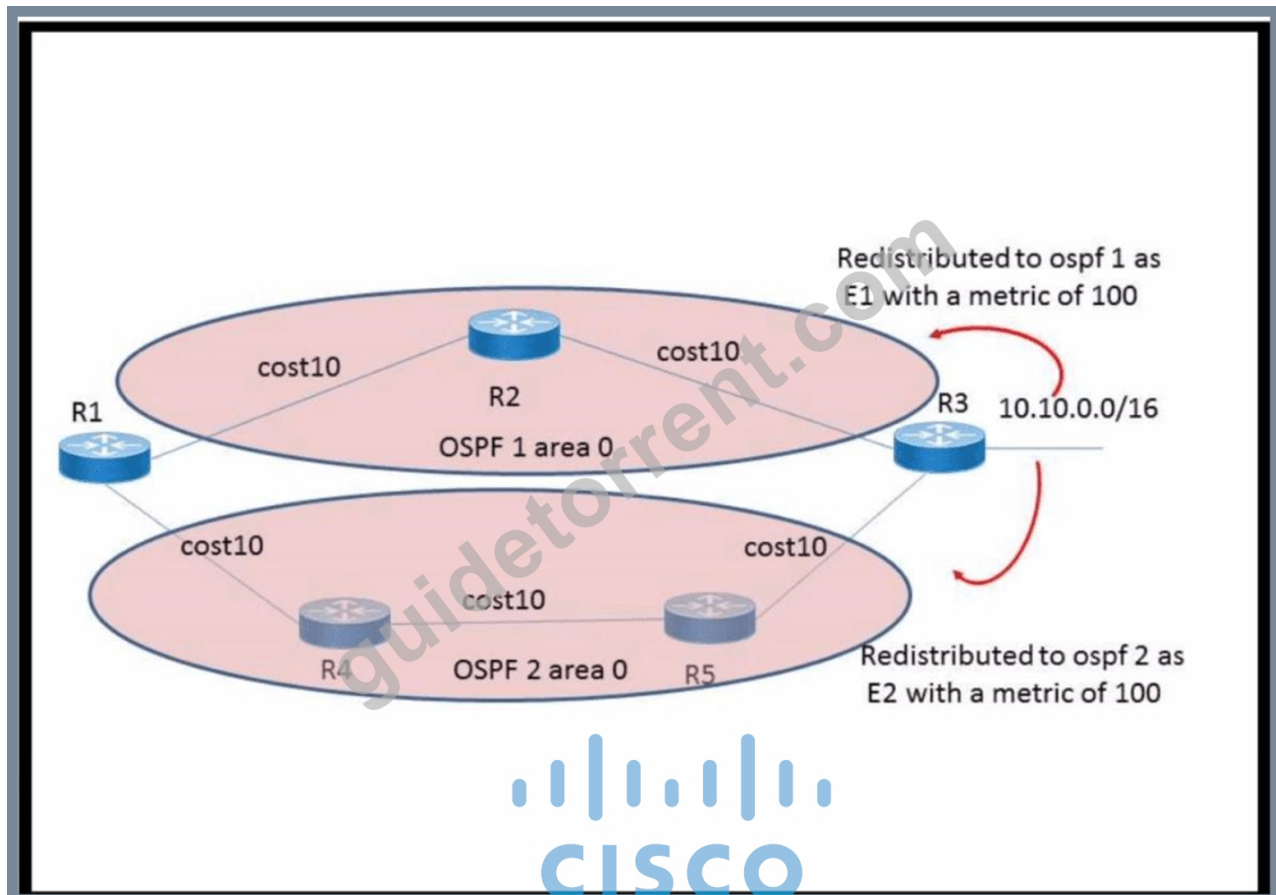
\* A: Describes general cloud architecture, not an SD-WAN feature.

\* C: Cloud registry is not an SD-WAN feature.

\* D: Microservices are an application architecture, not a WAN migration tool.

### NEW QUESTION # 68

Refer to the exhibit.



The network 10.10.0.0/16 has been redistributed to OSPF processes and the best path to the destination from R1 has been chosen

as R1-R2-R3. A failure occurred on the link between R2 and R3 and the path was changed to R1-R4-R5-R3. What happens when the link between R2 and R3 is restored?

- A. The path R1-R4-R5-R3 continues to be the best path because the metric is better
- B. The path R1-R4-R5-R3 continues to be the best path because OSPF does not compare the metrics between two domains
- C. The path reverts to R1-R2-R3 because this was the previous best path
- **D. The path reverts back to R1-R2-R3 because the route type is E1**

**Answer: D**

Explanation:

In the topology shown, the 10.10.0.0/16 network is redistributed into two different OSPF processes-OSPF 1 and OSPF 2-from router R3. The redistribution uses the external route types:

\* Into OSPF 1 as an E1 route with a metric of 100

\* Into OSPF 2 as an E2 route with a metric of 100

When redistribution occurs in OSPF, two types of external routes can be injected:

\* Type E1: Adds the internal OSPF cost to the external cost (total path cost = external metric + internal OSPF path)

\* Type E2: Considers only the external cost and ignores internal path cost (default behavior) In this case:

\* The path via R2-R3 (E1) includes both the external cost and the internal cost from R1 to R2 to R3. That is: 10 (R1-R2) + 10 (R2-R3) + 100 (external) = 120.

\* The path via R4-R5-R3 (E2) will show a constant metric of 100 regardless of the internal OSPF path (10 + 10 = ignored).

So when the link between R2 and R3 fails, the path R1-R4-R5-R3 (E2 route with constant metric 100) becomes the preferred route.

However, when the link between R2 and R3 is restored, the E1 route will be recalculated as:

\* Internal cost (R1-R2-R3) = 10 + 10 = 20

\* External metric = 100

\* Total = 120

OSPF always prefers E1 routes over E2 routes when both are available, even if the E2 route appears to have a better metric. This is because E1 routes provide more accurate end-to-end cost calculation.

Therefore, upon restoration, the routing table reverts to the E1 route via R1-R2-R3.

This behavior is aligned with OSPF protocol standards and is emphasized in CCDE v3.1 under the "Protocol Design Implications" domain, which focuses on redistribution behaviors, route-type preferences, and convergence consistency in multi-domain IGP designs.

#### NEW QUESTION # 69

SDN is still maturing. Throughout the evolution of SDN, which two things will play a key role in enabling a successful deployment and avoiding performance visibility gaps in the infrastructure?

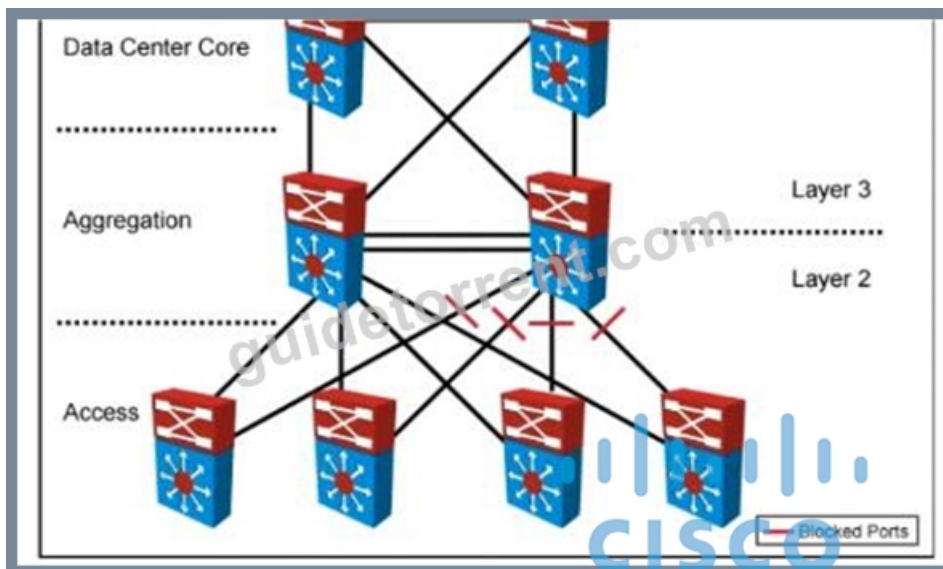
(Choose two.)

- A. peer-to-peer controller infrastructure
- B. integration of device context
- **C. rapid on-demand growth**
- **D. dynamic real-time change**
- E. falling back to old behaviors

**Answer: C,D**

#### NEW QUESTION # 70

Refer to the exhibit.



Your company designed a network to allow server VLANs to span all access switches in a data center. In the design, Layer 3 VLAN interfaces and HSRP are configured on the aggregation switches. Which two features improve STP stability within the network design? (Choose two.)

- A. root guard on access ports
- B. BPDU guard on the aggregation switch downlinks toward access switches
- C. root guard on the aggregation switch downlinks toward access switches
- D. edge port on access ports
- E. BPDU guard on access ports
- F. access switch pairs explicitly determined to be root and backup root bridges

**Answer: D,E**

#### NEW QUESTION # 71

Multicast routing is being designed for a company network. The requirements include to design efficiency in the forwarding plane so that traffic is not forwarded toward devices that are not running multicast applications. Which technology achieves these design goals?

- A. Configure IGMP snooping on the switches.
- B. Configure PIM sparse mode using Auto-RP on the routers.
- C. Configure IGMP snooping on the routers.
- D. Configure PIM sparse mode using BSR on the routers.

**Answer: A**

Explanation:

IGMP snooping allows switches to listen to IGMP membership reports and only forward multicast traffic to switch ports with receivers subscribed to a multicast group. This ensures forwarding plane efficiency by preventing multicast traffic from being sent to devices not running multicast applications.

#### NEW QUESTION # 72

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