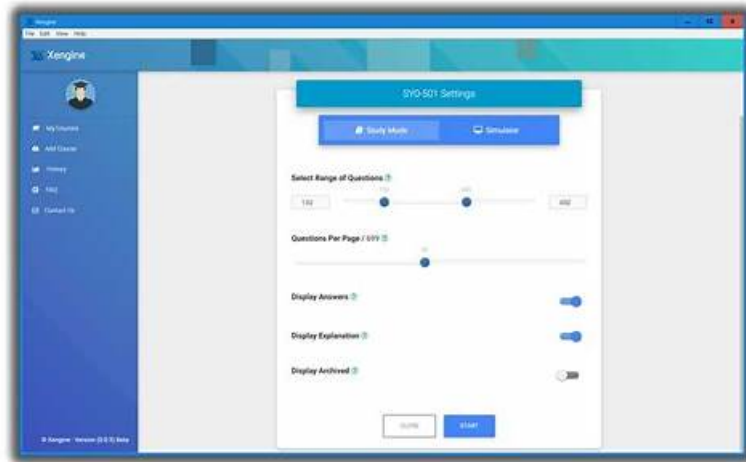


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Cisco 400-007 exam is a challenging certification test that assesses the skills and knowledge of experienced network designers. Passing 400-007 exam is a significant achievement and demonstrates a high level of expertise in network design. Candidates who are interested in taking the exam should have a deep understanding of network protocols, routing and switching technologies, security, network management, and network optimization, and should be able to demonstrate their ability to create effective and efficient network architectures.

Cisco 400-007 is a certification exam that tests the knowledge and skills of individuals in the area of network design. As part of the Cisco Certified Design Expert (CCDE) program, the exam is designed to validate the expertise of network designers in various industries, including service providers, large enterprises, and government agencies.

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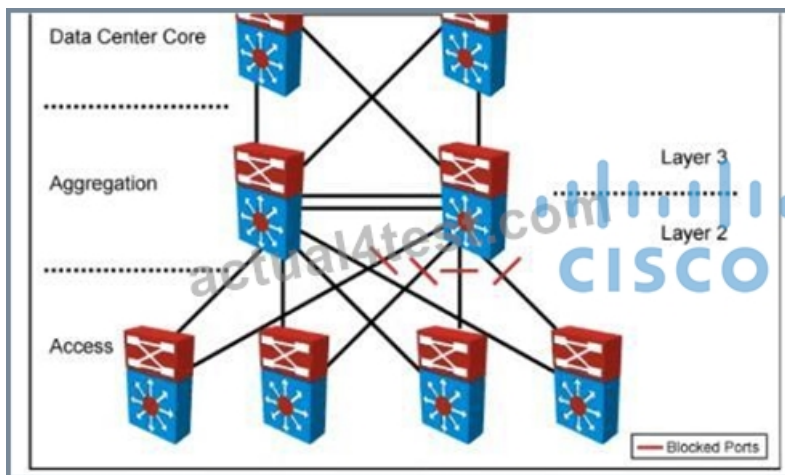
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To be eligible for the Cisco 400-007 Exam, candidates must have a valid CCNA or CCIE certification. Additionally, candidates must have a minimum of seven years of networking experience, including three years of experience in network design. Candidates must also have a thorough understanding of network protocols, network design principles, and network security.

Cisco Certified Design Expert (CCDE v3.0) Written Exam Sample Questions (Q250-Q255):

NEW QUESTION # 250

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. BPDU guard on the aggregation switch downlinks toward access switches
- **B. root guard on the aggregation switch downlinks toward access switches**
- C. root guard on access ports
- 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: B,E

Explanation:

* A (BPDU Guard on access ports): Prevents accidental connection of switches or bridging devices on access ports, which could cause unexpected topology changes or loops.

* C (Root Guard on aggregation switch downlinks): Ensures access switches cannot send superior BPDUs to challenge aggregation switch root status, maintaining predictable STP root placement.

Why other options are incorrect:

* B: Aggregation downlinks are not normally configured with BPDU Guard (since they expect BPDUs from access switches).

* D: Root guard on access ports is unnecessary as those ports should not participate in STP.

* E: Edge port (Rapid STP concept) is good for faster convergence but doesn't address stability.

* F: STP root and backup root election is important but not a specific STP feature - this is a design decision, not a stability feature.

NEW QUESTION # 251

Network operators have many options available, from fully centralized to fully distributed control planes, and each approach has its own set of characteristics. Drag and drop the characteristics from the left onto the corresponding approach on the right.

Answer Area

Possible convergence difficulties, N instances to configure and manage.

Easy to horizontally scale, just deploy a new instance.

Canonical approach, one instance of control plane per device (logical or real).

Most often used only in experimental SDN controllers.

Single point of failure and difficult to horizontally scale.

Resilient to many failure points, but still susceptible to issues around synchronization of state.

Strictly Centralized Control Plane

option A

option B

Semi or Logically Centralized Control Plane

option A

option B

Fully Distributed Control Plane

option A

option B

Answer:

Explanation:

Answer Area

Possible convergence difficulties, N instances to configure and manage.

Easy to horizontally scale, just deploy a new instance.

Canonical approach, one instance of control plane per device (logical or real).

Most often used only in experimental SDN controllers.

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Strictly Centralized Control Plane

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Semi or Logically Centralized Control Plane

Resilient to many failure points, but still susceptible to issues around synchronization of state.

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Fully Distributed Control Plane

Possible convergence difficulties, N instances to configure and manage.

Canonical approach, one instance of control plane per device (logical or real).

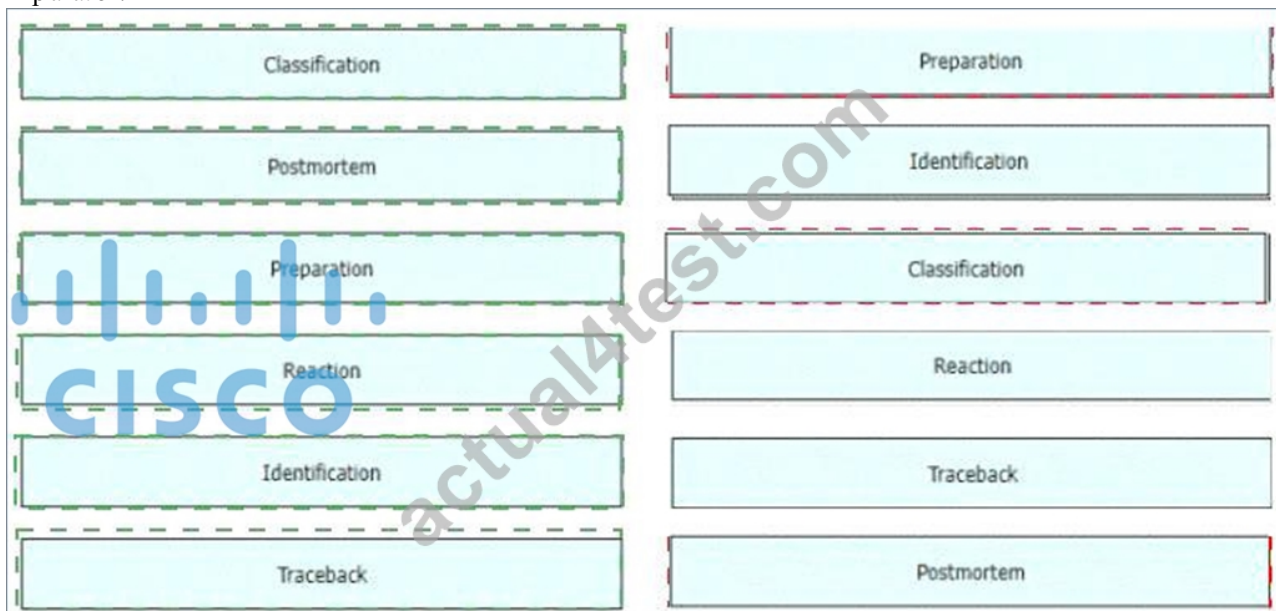
NEW QUESTION # 252

While computer networks and sophisticated applications have allowed individuals to be more productive the need to prepare for security threats has increased dramatically A six-step methodology on security incident handling has been adopted by many organizations including service providers enterprises, and government organizations to ensure that organizations are aware of significant security incidents and act quickly to stop the attacker, minimize damage caused, and prevent follow on attacks or similar incidents in the future Drag and drop the actions on the left to the targets on the right in the correct order.

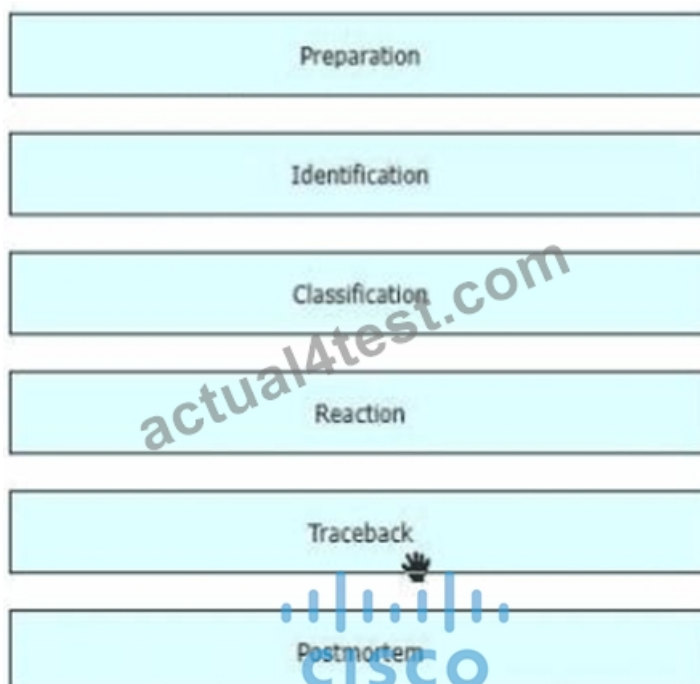


Answer:

Explanation:



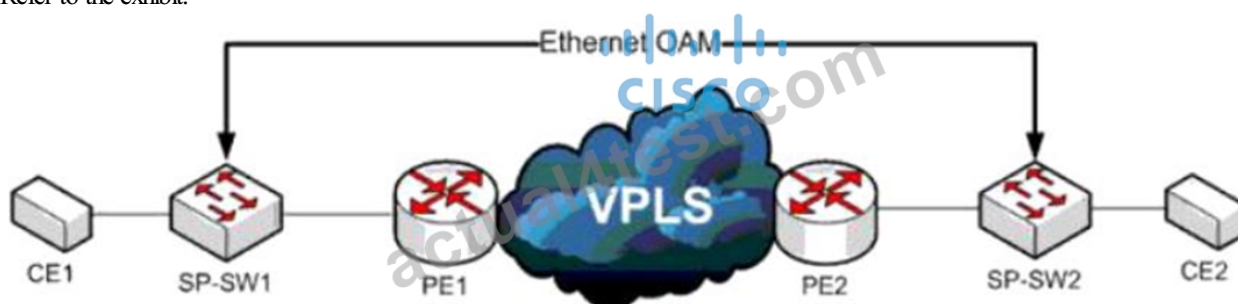
Explanation:



ChatGPT said:

NEW QUESTION # 253

Refer to the exhibit.



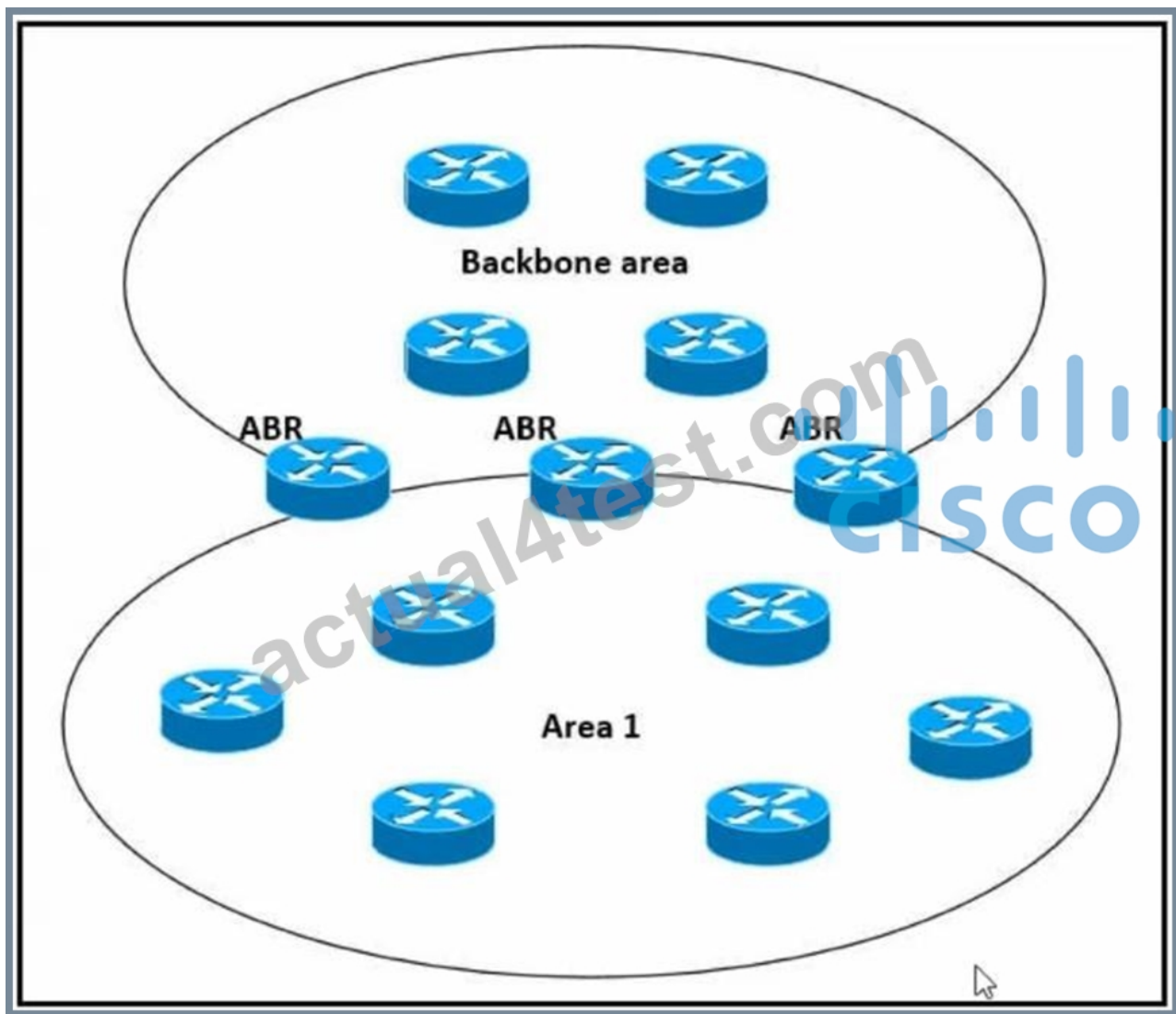
Refer to the exhibit A service provider has a requirement to use Ethernet OAM to detect end-to-end connectivity failures between SP-SW1 and SP-SW2 Which two ways to design this solution are true? (Choose two)

- A. Enable unicast heartbeat messages to be periodically exchanged between MEPs
- B. Enable Connectivity Fault Management on the SP switches
- C. Forward E-LMI PDUs over VPLS
- D. Forward LLD PDUs over the VPLS
- E. Use upward maintenance endpoints on the SP switches

Answer: B,E

NEW QUESTION # 254

Refer to the exhibit. Which impact of using three or more ABRs between the backbone area and area 1 is true?



- A. In a large-scale network LSA replication by all ABRs can cause serious scalability issues
- B. In a large-scale network multiple ABRs can create microloops.
- C. Multiple ABRs reduce the CPU processing on each ABR due to splitting prefix advertisement
- D. Prefixes from the non-backbone area are advertised by one ABR to the backbone

Answer: A

NEW QUESTION # 255

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