

# Reliable 400-007 Exam Preparation - 400-007 Valid Mock Exam

## Ultimate Guide to the 400-007 CCDE Written Exam Preparation



The [400-007 CCDE written exam](#) is a crucial step for networking professionals aspiring to earn the Cisco Certified Design Expert (CCDE) certification. This exam evaluates candidates on advanced network design principles, protocols, and architecture. A well-planned strategy can significantly increase your chances of success. In this guide, we'll discuss key aspects of the exam and how you can prepare effectively.

### Understanding the 400-007 CCDE Written Exam

Before diving into preparation, it's essential to understand the exam structure and topics covered. The 400-007 CCDE written exam focuses on high-level network design concepts, including:

- Network Infrastructure and Services
- Routing and Switching Technologies

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Cisco 400-007 exam is a certification exam for professionals seeking to become a Cisco Certified Design Expert. 400-007 exam is designed to test the knowledge and skills of candidates in the field of network design, architecture, and implementation. 400-007 Exam is designed to measure the candidate's ability to design complex enterprise networks, implement scalable solutions, and troubleshoot network problems.

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## Cisco 400-007 Valid Mock Exam - New 400-007 Exam Duration

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## Cisco Certified Design Expert (CCDE) Written Exam Sample Questions (Q322-Q327):

### NEW QUESTION # 322

Over the years, many solutions have been developed to limit control plane state which reduces the scope or the speed of control plane information propagation. Which solution removes more specific information about a particular destination as topological distance is covered in the network?

- A. Aggregation
- B. Layering
- C. Back-off timers
- D. **Summarization**

### Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract of Design Expert (CCDE) Summarization reduces control plane state by abstracting detailed route information. As packets move further away from the destination subnet, the network advertises summarized prefixes instead of individual host or subnet routes, minimizing control plane overhead and routing table size. This helps scale large networks and improves convergence times.

While aggregation and summarization are related, summarization specifically refers to the propagation of route prefixes and their abstraction - making it the precise fit for this question.

### NEW QUESTION # 323

An enterprise network has two core routers that connect to 200 distribution routers and uses full- mesh IBGP peering between these routers as its routing method. The distribution routers are experiencing high CPU utilization due to the BGP process.

Which design solution is the most cost effective?

- A. Implement e BGP between the core and distribution routers
- B. Increase the memory on the distribution routers
- C. Increase bandwidth between the core routers
- D. **Implement route reflectors on the two core routers**
- E. Increase the memory on the core routers

### Answer: D

### NEW QUESTION # 324

When a company network architect is working on a new network design, they are expected to ensure that business requirements and technical aspects are factored in, but often there are other factors that come into play as well. Which non-business constraint must also be considered throughout the design phase?

- A. Time
- B. **Compliance**
- C. Location
- D. Cost

### Answer: B

Explanation:

In addition to business requirements, network architects must also account for non-business constraints such as legal, regulatory, and industry compliance. These may include standards like GDPR, HIPAA, PCI-DSS, or country-specific data sovereignty and retention laws.

Compliance is not typically driven by direct business value but by external mandates that influence how the network must be designed, implemented, and operated. Ignoring compliance requirements can result in significant legal or financial penalties and is therefore a core component of any responsible network design.

Other options such as:

- \* A. Location - may impact design (e.g., latency, availability), but it is often categorized as a technical or logistical consideration.
- \* B. Cost - is a business constraint.

\* C. Time - is considered a project or delivery constraint, also typically business-driven.

### NEW QUESTION # 325

[Security, Automation, and Policy Integration in Design] Given the risk of hybrid cloud adoption, which two solutions help secure private/hybrid environments?

(Choose two)

- A. Practice SSH network protocols for data communication between unsecured network connections
- B. **Implement a common protective methodology for the same information at rest or in motion**
- C. Provide distributed management and visibility across the infrastructure instead of centralized management
- D. **Apply cryptographic protocols to secure data transmission over the network**
- E. Avoid automating the scanning and remediation of security controls using open-source tooling

**Answer: B,D**

Explanation:

#Explanation:

\* C: Using a consistent data protection strategy (encryption at rest/in motion) across environments ensures policy continuity across private and hybrid clouds.

\* E: Applying cryptographic protocols (e.g., TLS, IPsec) protects data as it traverses public and hybrid infrastructure.

Other options:

\* A: Automation of security scanning is encouraged; avoiding it is counterproductive.

\* B: While SSH is secure, it doesn't address full-stack hybrid data protection.

### NEW QUESTION # 326

As a network designer, you need to support an enterprise with hundreds of remote sites connected over a single WAN network that carries different types of traffic, including VoIP, video, and data applications.

Which of the following design considerations will not impact design decision?

- A. The location of the data collection
- B. Identify traffic types and top talkers over this link
- C. What direction the data or flows should be metered
- D. **Focus on the solution instead of the problem, which helps to reduce downtime duration**

**Answer: D**

Explanation:

\* A (Focus on the solution instead of the problem): While resolving issues quickly is important for operations, solution-oriented thinking during the design phase may overlook essential requirements analysis. Design decisions must be based on problem understanding, traffic analysis, and actual network behavior.

Other options explained:

\* B, C, D: All directly impact WAN design by influencing QoS, capacity planning, flow optimization, and visibility.

### NEW QUESTION # 327

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