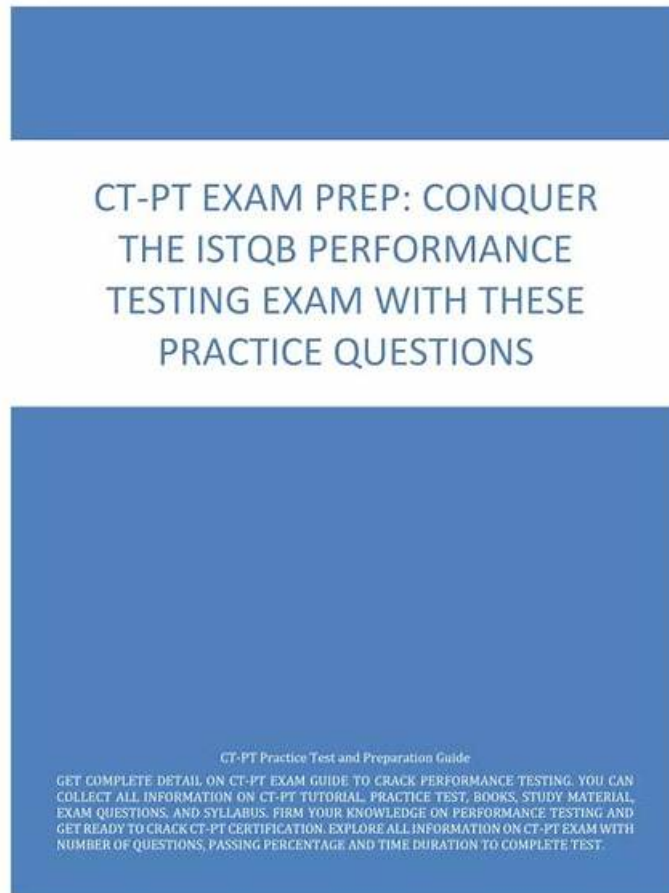


Exam CT-PT Bible, Exam Sample CT-PT Questions



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ISTQB CT-PT Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Testing Types in Performance Testing: This section of the exam introduces the distinction between static and dynamic performance testing. It shows how reviews of requirements, architecture, and code can identify risks before coding is complete, and how runtime checks of resource utilization and response times reveal issues that only appear when the system is in operation.
Topic 2	<ul style="list-style-type: none">Types of Performance Testing: This section of the exam measures the skills of Software Test Analysts and covers various approaches such as load, stress, scalability, spike, endurance, concurrency, and capacity testing. It explains how each type evaluates system behavior under different conditions, helping testers and stakeholders understand how the system handles both expected and extreme usage scenarios.

Topic 3	<ul style="list-style-type: none"> • Common Failures in Performance Testing and Their Causes: This section of the exam measures the skills of Performance Engineers and outlines frequent failure modes, including slow responses at various load levels, degraded performance over time, and system crashes under peak conditions. It provides examples of underlying causes such as resource leaks, insufficient capacity, and poor handling of spikes or concurrency, illustrating why robust planning and monitoring are crucial for reliable performance.
Topic 4	<ul style="list-style-type: none"> • The Concept of Load Generation: This section of the exam measures the skills of Software Test Analysts and discusses how representative loads are modeled and produced to simulate user or process behavior. It explores methods such as user interface inputs, crowdsourcing, API-based calls, or protocol capture and playback, emphasizing the need for repeatable loads that accurately reflect real-world conditions.

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ISTQB Certified Tester - Performance Testing Sample Questions (Q33-Q38):

NEW QUESTION # 33

Which of the following is considered a characteristic of stress testing?

- A. It focuses on the system's ability to handle transactions over a specific timeframe.
- B. Considers the system's ability to recover from a sudden increase of loads within the system's limits.
- **C. It evaluates the system's ability to handle loads beyond its design limits.**
- D. It determines the maximum number of transactions a system can handle.

Answer: C

Explanation:

Stress testing is designed to evaluate how a system behaves under extreme conditions, often exceeding its design limitations. The goal is to identify bottlenecks, memory leaks, and failures that occur beyond normal operating conditions.

Option A is incorrect because it refers to resilience testing, which focuses on recovery rather than stress beyond limits.

Option B is incorrect as it describes load testing, which measures performance under expected loads.

Option C is incorrect since determining the maximum transactions is a feature of capacity testing, not stress testing.

NEW QUESTION # 34

Which of the following can provide measurements for both individual and aggregated elements within a single performance test?

- A. Measuring underlying transactions
- **B. Nested transactions**
- C. Aggregated metrics
- D. Process optimization tracking

Answer: B

Explanation:

Nested transactions allow performance tests to capture both individual and aggregated elements by grouping multiple related transactions and measuring their cumulative impact.

Option A (Aggregated metrics) provides summaries but lacks insight into individual elements.

Option B (Process optimization tracking) focuses on business process improvement, not test metrics.

Option C (Measuring underlying transactions) focuses only on individual transactions.

NEW QUESTION # 35

Which of the following could lead to inconsistent performance test results?

- A. Sequential scripts running and attempting to access the same data.
- B. Expected results were not verified with senior management.
- C. Virtual users running the same script while logged in as the same user.
- D. Concurrent scripts running and attempting to access the same data.

Answer: C

Explanation:

If multiple virtual users execute the same script while logged in as the same user, it can cause data conflicts, session collisions, or cache interference, leading to inconsistent performance test results.

Option A (Concurrent scripts accessing the same data) may cause data locking issues, but this is a test setup concern rather than an inconsistency issue.

Option B (Sequential scripts accessing the same data) does not typically cause inconsistencies since they execute in order.

Option D (Verification with management) is unrelated to technical inconsistencies.

NEW QUESTION # 36

What should be captured for batch processing performance metrics?

- A. Average percentage of network latency
- B. Number of concurrent virtual users
- C. Throughput and wait times
- D. Number of records deleted

Answer: C

Explanation:

For batch processing performance metrics, the two most important factors are:

Throughput - Measures the number of transactions processed over time.

Wait times - Evaluates delays in processing batches.

Option B (Number of records deleted) is irrelevant unless batch processing specifically involves deletions.

Option C (Network latency percentage) applies to real-time transaction processing, not batch jobs.

Option D (Concurrent virtual users) applies more to load testing rather than batch performance.

NEW QUESTION # 37

What is typically the result of oversaturation of system resources during performance testing?

- A. Response time will gradually improve over a period of time.
- B. The size of the database will gradually decrease.
- C. Response time will be slow under significant load levels.
- D. Error logging will decrease.

Answer: C

Explanation:

When system resources are oversaturated (e.g., CPU, RAM, or network bandwidth), response times will degrade because the system struggles to process requests efficiently. This is a key performance bottleneck indicator.

Option A is incorrect because response times do not improve under heavy load; they typically worsen.

Option C is incorrect because error logging may actually increase rather than decrease under stress.

Option D is incorrect because database size is independent of system saturation unless records are actively purged.

NEW QUESTION # 38

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