

Free PDF Quiz 2025 Professional ISTQB CT-PT: ISTQB Certified Tester - Performance Testing Exam Papers



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ISTQB CT-PT Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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 3	• 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 4	• 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.
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ISTQB Certified Tester - Performance Testing Sample Questions (Q36-Q41):

NEW QUESTION # 36

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

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

Answer: D

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 # 37

You are managing a project that is testing a system that manages a newly redesigned jet engine for heavy aircraft. Given the fact that this engine is specifically engineered to reduce noise, it is important that the software maintains enough thrust for lift for a period of 5 minutes without exceeding 87.5dB. The software must achieve this independent of other internal systems such as fuel or navigation management.

Given the risk for the ability of the aircraft to meet the noise abatement regulations while still being able to fly, when is the optimum time in the software lifecycle to apply the performance testing?

- **A. Preferably during each phase in the lifecycle**
- B. Preferably at the end of unit testing
- C. Preferably at the end of system testing
- D. Preferably during system integration testing

Answer: A

Explanation:

Performance testing should be integrated into every phase of the software lifecycle to ensure that critical performance requirements (such as thrust-to-noise ratio) are met early and continuously validated.

Option B (End of system testing) is too late, as issues may be costly to fix at that stage.

Option C (During system integration testing) is useful but not comprehensive enough.

Option D (At the end of unit testing) is incorrect because unit tests do not assess overall system performance.

NEW QUESTION # 38

You have run a load test. When examining the metrics, you see that the virtual users experienced many timeouts and excessive wait times. The system throughput metrics exceeded expected results, even during peak times. Based on your analysis, what conclusion should you draw?

- **A. Processing speed is too slow.**
- B. Virtual users are exhibiting impatient behavior.
- C. New test data is needed.
- D. Network infrastructure should be investigated.

Answer: A

Explanation:

If timeouts and excessive wait times occur, but throughput is high, this suggests that the system is unable to process requests fast enough. This points to slow processing speed due to CPU bottlenecks, memory limitations, or inefficient database queries.

Option A (Network infrastructure investigation) would be relevant if throughput was low or variable.

Option C (Impatient virtual users) is irrelevant; virtual users follow scripted behaviors.

Option D (New test data) does not address the core issue.

NEW QUESTION # 39

During which of the principal performance testing activities are the building blocks for larger, more complex tests created?

- A. During test completion
- B. During test planning
- C. During test design
- **D. During test implementation**

Answer: D

Explanation:

Test implementation is the stage where smaller test components are created and assembled into larger test scenarios. This phase includes scripting, test data preparation, and configuring load profiles.

Option A (Test completion) involves analyzing results, not building tests.

Option B (Test planning) focuses on strategies and objectives, not test creation.

Option C (Test design) defines test scenarios and cases, but the actual building happens in implementation.

NEW QUESTION # 40

What challenge must be considered when using crowds to emulate load generation?

- A. This type of load generation is more suitable for mainframe applications.
- B. The load generation method is less sensitive to changes in the III.
- **C. The load generation will be difficult to reproduce.**
- D. This technique is more precise than other methods of load generation.

Answer: C

Explanation:

Crowd-based load generation involves using distributed users (e.g., cloud-based testers or real users). The main challenge is that the load generation can be difficult to reproduce consistently due to variations in network conditions, device types, and user behavior.

Option B is incorrect because load generation methods should adapt to system changes.

Option C is incorrect since mainframe applications typically do not rely on crowd-based testing.

Option D is incorrect because crowd-sourced load testing is generally less precise than scripted load testing.

NEW QUESTION # 41

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