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ISTQB CT-PT Prüfungsplan:

Thema	Einzelheiten
Thema 1	<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.
Thema 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.
Thema 3	<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.
Thema 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.

>> CT-PT Originale Fragen <<

CT-PT Prüfungsaufgaben & CT-PT Deutsch Prüfung

Wir alle wissen, dass die ISTQB CT-PT Zertifizierungsprüfung in der IT-Branche eine zentrale Position darstellt. Aber die

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ISTQB Certified Tester - Performance Testing CT-PT Prüfungsfragen mit Lösungen (Q41-Q46):

41. Frage

You are heading the testing effort for a system that manages the air/fuel ratio of direct-injection fuel devices built specifically for high-altitude rescue helicopter engines. At altitude, the system must be able to perform in order to make enough air/fuel ratio adjustments per millisecond between fuel and both an on-board source and available ambient air in order to prevent an engine stall due to oxygen starvation. The system is following a sequential development lifecycle.

For this safety-critical software, when is the appropriate point in the lifecycle to identify and define the performance goals?

- A. At the very beginning of the project during the concept stage
- B. After test readiness has been achieved, but before system testing starts
- **C. During the requirements phase when the business stakeholders have the opportunity to agree**
- D. During the software design phase when the requirements are set and the design is being defined

Antwort: C

Begründung:

For safety-critical software, performance goals must be identified as early as the requirements phase. This ensures that performance constraints are well understood and accounted for throughout development.

Option A (After test readiness but before system testing) is too late, as requirements should be defined before coding begins.

Option C (During the concept stage) is too early, as details may not be concrete.

Option D (During software design) is useful but should be preceded by a proper definition during the requirements phase.

42. Frage

You are managing the testing efforts of an existing distributed system that manages inventories of automobile and light truck tires from multiple warehouses across the country. The system is being enhanced to track incoming restocking shipments at the point of entry to the warehouse and outbound sales shipments at the point of shipment from the warehouse, all of which are executed in real-time.

System loads traditionally peak on Mondays due to built-up demand from the previous weekend.

You are preparing a presentation to the business stakeholders, outlining your performance testing strategy.

Which of the following is appropriate to present to this audience?

- **A. The risks that may exist due to platform differences between the test environment and the production environment**
- B. A test plan that includes specific technical specifications for the computing hardware to be used for performance testing
- C. Established HTTP response per second goals that will have acceptable minimum, maximum, and average response times
- D. A comprehensive list of support staff to be available during performance testing, including key members of the application development team

Antwort: A

Begründung:

Business stakeholders are most concerned with risks that affect deployment and production stability. The primary risk in performance testing is that the test environment may differ from production, leading to misleading test results.

Option A (HTTP response goals) is too technical for a business stakeholder audience.

Option B (Hardware specifications) is relevant for technical teams, not business stakeholders.

Option C (Support staff details) is a logistical aspect, not a key performance testing risk for business decision-makers.

43. Frage

Why is it important to specify how failures are handled during test execution?

- A. To meet the expectations of the business stakeholders
- **B. To ensure that new failures are not introduced**
- C. To minimize distractions during testing

- D. To ensure all defects are captured

Antwort: B

Begründung:

During performance testing, it is crucial to define failure handling procedures to ensure that failures do not introduce additional errors into the test execution process. This helps maintain test accuracy and avoid misleading results.

Option A (Meeting stakeholder expectations) is important but not the primary reason for defining failure handling.

Option C (Capturing all defects) is a general testing principle, not specific to failure handling in performance tests.

Option D (Minimizing distractions) is not a valid reason for defining failure handling.

44. Frage

Which of the following is an advantage of using performance monitoring tools?

- A. They can proactively detect denial-of-service (DoS) attacks.
- **B. They proactively compile metrics from server logs.**
- C. They can prevent malicious behavior.
- D. They more easily identify and report multi-threading problems.

Antwort: B

Begründung:

Performance monitoring tools collect real-time and historical performance data, particularly from server logs, application metrics, and infrastructure monitoring. This allows testers to analyze performance trends efficiently.

Option A is incorrect because monitoring tools do not prevent malicious behavior but may detect it.

Option C is incorrect since identifying multi-threading issues is typically done through profiling tools rather than performance monitors.

Option D is incorrect as DoS attack detection falls under security testing.

45. Frage

What is an advantage of aggregating the results of performance testing?

- A. Aggregated results show when testing has been completed.
- B. Testing is expedited when the results are aggregated.
- C. Aggregated results provide more detail and allow for a more complete analysis of the test.
- **D. It is easier for stakeholders to draw a correct conclusion from aggregated results.**

Antwort: D

Begründung:

Aggregating test results helps stakeholders understand performance trends by combining data points from multiple test runs. This makes it easier to draw conclusions about system behavior.

Option A is incorrect because aggregation may reduce detailed visibility, not increase it.

Option B is incorrect because aggregation does not expedite testing itself.

Option D is incorrect because aggregated results do not indicate test completion.

46. Frage

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