

# iSQI

## Exam Questions CTFL-PT

ISTQB Certified Tester Foundation Level-Performance Testing



#### NEW QUESTION 1

Which of the following performance tests commonly results in understanding an application's ability to support future increases of users or larger amounts of data without exceeding the current performance requirement?

- A. scalability test
- B. load test
- C. endurance test
- D. concurrency test

**Answer: C**

#### NEW QUESTION 2

Which performance testing operational activity pattern assists in identifying system functionality that may require correction or optimization?

- A. Batch requests are collections of activities a SUT performs from initiation through termination of one or more processes commonly measured for their elapsed time.
- B. Concurrency are collections of activities a SUT performs from initiation through termination of one or more processes commonly measured for their elapsed time
- C. Stakeholder requests are collections of activities a SUT performs from initiation through termination of one or more processes commonly measured for their elapsed time.
- D. Transactions are collections of activities a SUT performs from initiation through termination of one or more processes commonly measured for their elapsed time.

**Answer: B**

#### NEW QUESTION 3

During design discussions the performance test team observed that database stored procedures for several popular use cases may be badly coded. Which of the following common performance failures would best confirm the team's concern was justified?

- A. Slow response under all load levels
- B. Slow response under moderate-to-heavy load levels
- C. Degraded response over time
- D. Inadequate or graceless error handling under heavy or over-limit load

**Answer: B**

#### NEW QUESTION 4

You have been asked to test the performance of a software and system update to a North American mobile trivia quiz game application. The quiz app is available on major app stores serving English-speaking users. The number of concurrent users planned for is 5 million. Winning quiz participants are promised a share of an allocated cash prize. Once participants start playing, their quiz sessions must not be lost especially if all previous questions were answered correctly. The application owner wants to ensure that 99% of quiz sessions are maintained (up to 495 million sessions) until the last answer has been successfully recorded. The performance test team is assembling criteria for tool selection. They have identified the following criteria:

- Must be able to reliably generate 5 million concurrent virtual quiz participants from multiple data centers with centralized control
- Must be compatible with REST-based web services and have tight integration with RESTful APIs' OData and OpenAPI.
- Must be able to support nested transaction timers, provide centralized performance data collection and reporting, and integrate with platform monitoring agents used by the Operations team.

Which of the following criteria would best complete the provided set of criteria?

- A. Must protect undesirable performance results from being viewed from unauthorized users
- B. Must provide shell checking that checks spelling within test script comments
- C. Must be supported with documentation, training materials, books from known publishers, and an IDE that behaves similarly to popular in-house IDEs.
- D. Must have technical and software maintenance support for product versions two major revisions behind current revision

**Answer: C**

#### NEW QUESTION 5

Which of the following activities is a valid performance-oriented static testing activity?

- A. Evaluating resource utilization of unit-level test objects
- B. Testing end-to-end behaviors under various load conditions.
- C. Applying use cases and workflows as features are integrated
- D. Modeling of system resource requirements and/or behavior using spreadsheets or capacity planning tools

**Answer: C**

#### NEW QUESTION 6

What is normally performed within the principal performance testing activity called Test Planning and Control?

- A. Determine scope of performance testing
- B. Organize test cases into performance test procedures
- C. Identify risks to the performance tests
- D. Determine load levels, timing parameters, and transactions to be tested
- E. i, ii, iv, v true; iii false
- F. i, ii, iii, v true; iv false
- G. i, ii, v true; iii, iv false
- H. iii, iv, v true; i, ii false

**Answer:** C

#### NEW QUESTION 7

You have been asked to test the performance of a software and system update to a North American mobile trivia quiz game application. The quiz app is available on major app stores serving English-speaking users. The number of concurrent users planned for is 5 million. Winning quiz participants are promised a share of an allocated cash prize. Once participants start playing, their quiz sessions must not be lost especially if all previous questions were answered correctly. The application owner wants to ensure that 99% of quiz sessions are maintained (up to 4.95 million sessions) until the last answer has been successfully recorded. In order to avoid cooperation among quiz participants, the answers to the multiple choice questions are listed randomly. Confidence in the game's fairness requires that a registered user originate from only one quiz client device. Every user must respond over the same short window of time in order to avoid external assistance and learning the official answer before responding. Only participants who respond correctly may answer the next question. Any activity that appears to violate expected behavior of a rule-following participant will cause the client session to be rejected.

You are currently preparing test scripts to function as a quiz participant.

What input data type is most critical for the test script to incorporate to ensure that the concurrency objective will be properly tested?

- A. In order to properly test the concurrency objective, the test script must answer each trivia question with the same answer as every other virtual user
- B. In order to properly test the concurrency objective, the test script must provide a random password to the application's login system
- C. In order to properly test the concurrency objective, the test script must present a unique user name to the application's login system
- D. In order to properly test the concurrency objective, the test script must supply the system-provided unique session ID with each answer provided

**Answer:** B

#### NEW QUESTION 8

You have been asked to test the performance of a software and system update to a North American mobile trivia quiz game application. The quiz app is available on major app stores serving English-speaking users. The number of concurrent users planned for is 5 million. Winning quiz participants are promised a share of an allocated cash prize. Once participants start playing, their quiz sessions must not be lost especially if all previous questions were answered correctly. The application owner wants to ensure that 99% of quiz sessions are maintained (up to 4.95 million sessions) until the last answer has been successfully recorded.

You performed 100 test runs that provided 5 million virtual concurrent users. You have measurements of participant concurrency at the last question for each test run. In your analysis, you order all the concurrency test results by measured concurrency value from best to worst. You determine 85%, 90%, 95% and 100% values by selecting the 85th, 90th, 95th and 100th (last and worst) measured values by counting list positions starting from the best value going towards the worst until you reach the desired list position (ex. 85). Keep in mind, the results in lower list positions are as good or better than the results chosen for reporting.

After analyzing the results of the performance tests, you present the following results: 85% 4.92 million valid concurrent users

90% 4.90 million valid concurrent users

95%: 4.0 million valid concurrent users

100%: 3.8 million valid concurrent users

Based on these results, what should you report to the stakeholders?

- A. The performance tests clearly have failed to produce a realistic and compatible load. The results should confirm the test oracle in that the 99% of five million participants concurrency objective has been achieved. If the performance test plan had worked correctly, the reported values should have been 85% 4.95, 90% 4.95, 95% 4.95 and 100% 4.95 million valid concurrent users.
- B. These results clearly show that the system update successfully supports 99% of five million participants
- C. Four samples from the first fifteen ordered test results are presented
- D. The system update performed much worse than what is presented here
- E. The system update has failed to meet the 99% of five million participants concurrency objective.
- F. If we pick 85 out of 100 test runs as the minimum level of reliability, the system update does not reliably meet the 99% of five million participants concurrency target. However, not all results are as bad as these

**Answer:** A

#### NEW QUESTION 9

Which metrics collecting attributes are most commonly associated with the metrics collection methods listed?

- \* 1. Scans collections of and compiles metrics based on operating system and application messages
- \* 2. Supplements reporting capabilities of another metrics collection method
- \* 3. Most likely unavailable for ongoing metrics collection after performance testing efforts have ceased
- \* 4. Collected metrics data align with the greatest precision to test activities
- \* A Performance test tools
- \* B Performance monitoring tools
- \* C Log analysis tools

- A. 1C, 2A, 3B and 4B
- B. 1C, 2B, 3A and 4A
- C. 1
- D. 2A, 3A and 4B
- E. 1A, 2B, 3B and 4A

**Answer:** D

#### NEW QUESTION 10

Which of the following architectures are likely to be found entirely on-premises and less likely to suffer from Internet-based network performance challenges?

- i Mobile
- ii Multi-tier System in a Single Computer
- iv Distributed

- A. Dynamic
- B. i, iv true; ii, iii false
- C. v false
- D. ii, iii true; i, iv, v false
- E. i, ii, v true; iii, iv false
- F. ii, iii, v true; i, iv false

**Answer:** A

#### NEW QUESTION 10

The average time from response reception to database commitment is 1000 milliseconds under maximum concurrent usage. What is the approximate maximum average system throughput if that assumptions hold?

- A. 1.667 million transactions/second
- B. 1 million transactions/secondcorrect
- C. 1 million transactions/millisecond
- D. 200.000 transactions/second

**Answer:** B

#### NEW QUESTION 15

You have been asked to test the performance of a software and system update to a North American mobile trivia quiz game application. The quiz app is available on major app stores serving English-speaking users. The number of concurrent users planned for is 5 million Winning quiz participants are promised a share of an allocated cash prize Once participants start playing, their quiz sessions must not be lost especially if all previous questions were answered correctly. The application owner wants to ensure that 99% of quiz sessions are maintained (up to 4.95 million sessions) until the last answer has been successfully recorded In order to avoid cooperation among quiz participants, the answers to the multiple choice questions are listed randomly Confidence in the game's fairness requires that a registered user originate from only one quiz client device Every user must respond over the same short window of time in order to avoid external assistance and learning the official answer before responding. Only participants who respond correctly may answer the next question Any activity that appears to violate expected behavior of a rule-following participant will cause the client session to be rejected.

You are developing test script code that handles quiz question responses. To do this you need to ensure that the script emulates the production quiz app client's logic in terms of rule following and client-backend interface specification.

Based on the question description provided, which is one test script behavior you would implement in order to ensure the test script successfully delivers the operational and load profile of a quiz participant?

- A. Recognize whether the previous question response was correct
- B. Set the device identifier as a constant to ensure all virtual user instances use the set valuecorrect
- C. Randomly select the maximum think time limit used to delay question responses.
- D. Use the date-time clock in order to submit question responses on a synchronized schedule with each instance

**Answer:** B

#### NEW QUESTION 20

Which Is a valid reason for why performance testing load would be applied to the SUT in a ramp-up pattern during a performance test?

- A. Frequent sudden significant increases of toad allows the SUT performance to stabilize after each jump in load thus exhibiting consistent behavior that results in measurements that are more reliable
- B. Gradually increasing the load ensures the SUT remains in a transient performance condition as it responds to the new increase in load thus exhibiting realistic behavior that improves the realism of the performance test
- C. Gradually increasing the load allows the SUT performance to stablize after each progressive increment of load thus exhibiting consistent behavior that results in measurements that are more reliable
- D. Frequent sudden significant increases of load ensures the SUT remains in a transient performance condition as it responds to each new large increase in load thus exhibiting consistent behavior that results in measurements that are more reliable.

**Answer:** B

#### NEW QUESTION 25

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