

# 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

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. During your conversations with stakeholders, you determine that an essential transaction was the quiz participant's responses to questions. As you prepare to speak to stakeholders regarding their test objectives for this transaction, you develop a collection of prepared questions to ask them. Which question is best aligned to the types of questions recommended for gathering test objectives information from stakeholders?

- A. How long should it take before the user becomes aware that their last response was incorrect?
- B. What are the targeted percentages of correct responses for each of the questions asked during a quiz event?
- C. What are the targets for CPU utilization and memory consumption for the web services platforms receiving question responses?
- D. What is the projected participation growth rate over the next nine months?

**Answer: C**

#### NEW QUESTION 3

Which of the situations best adheres to general performance testing principles?

- A. The performance test report compares results with negotiated stakeholder-accepted measures and performance objectives.
- B. Performance testers allow the performance test environment to change between test repetitions.
- C. The performance test plan shows a test schedule that produces results a week after the project's delivery milestone with a budget 35% less than initially allocated.
- D. Performance testers save planning time and money by avoiding stakeholder discussions and applying industry best practices to define performance measures and acceptable results.

**Answer: D**

#### NEW QUESTION 4

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 5

Which of the following lists of attributes characterize load generation using crowds?

- A. uses API to produce load, repeatable
- B. small number of testers
- C. end-to-end test, not repeatable
- D. large number of testers
- E. end-to-end test, repeatable, small number of testers
- F. uses API to produce load, not repeatable
- G. large number of testers

**Answer: A**

#### NEW QUESTION 6

Which of the following protocols would allow a test script to interact with a database management system directly?

- A. JDBC
- B. SOAP
- C. HTTPS
- D. IMAP

**Answer: B**

#### 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. Before your team begins testing, the team needs to present the performance test plan to technical stakeholders. Which of the following sets of plan attributes would you recommend be included in this presentation?

- A. Sales has indicated that quiz events for Sponsor A offering \$65,000. Sponsor B offering \$45,500. Sponsor C offering \$25,000 will be taking place during the first week of performance testing.
- B. Simultaneous session tests are focused on the backend and are not end-to-end.
- C. Variability in user behavior, mobile devices and mobile communications introduces session drop opportunities outside application control.
- D. Using load generators located in 5 high availability data centers in North America will ensure session drops are most likely caused by application issues, thus allowing us to isolate the root cause of any concurrency issues that arise.
- E. Test scripts based on replaying recorded communication will take 30 hours each to write and test due to the extensive parameterization required to respond to quiz questions. Development has agreed to share client code that can be scripted to authenticate and respond to quiz questions automatically.
- F. The fully programmed script will likely take 18 hours each to write and test. Fully programmed scripts will utilize the identical communications stack of the actual client, avoiding missed communication nuances.
- G. The U.S. Federal Trade Commission has recently sued SmartyBogusFauxApp and OutSmartMeexample.com over promises of prizes and unreliability. The upgrade being tested was paid for by the latest round of venture funding. Supporting 5 million users is a requirement that was a condition of their funding.
- H. ii include ii
- I. iv, v exclude
- J. ii, iii include i, iv, v exclude
- K. ii, v include i, ii, iv exclude
- L. ii
- M. iv, v include i, ii exclude

**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. Based on this scenario, when is the best time within this software and system update project to analyze and assess performance risks?

- A. During the requirements phase
- B. After design phase but prior to implementation phase
- C. Revisited over the course of the development lifecycle
- D. During user acceptance testing and subsequent regression testing

**Answer: D**

#### NEW QUESTION 9

Which section of a performance test script is typically responsible for ensuring the script will have the right values and communication settings during execution?

- A. main section
- B. clean-up section
- C. initialization section
- D. timer section

**Answer: B**

#### 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 assumption holds?

- A. 1.667 million transactions/second
- B. 1 million transactions/second correct
- C. 1 million transactions/millisecond
- D. 200,000 transactions/second

**Answer: B**

#### NEW QUESTION 10

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 value correct

- 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 13**

How is transaction elapsed time determined?

- A. response time - think time
- B. response time + think time correct
- C. response time + think time + nest time
- D. response time + think time - nest time

**Answer: B**

**NEW QUESTION 17**

What statement is TRUE regarding the security policies provided by Nuage VCS?

- A. The match criteria in security policies can be based on MAC address, IP address and TCP/UDP port number.
- B. Each policy entry has an associated priority that defines the order in which policy entries are evaluated.
- C. Ingress security policy controls the traffic flowing into the virtual machine.
- D. The default ingress security policy allows all traffic to be forwarded.

**Answer: A**

**NEW QUESTION 20**

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