

# 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 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 is a collection 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 4

Which tool is ideally the only source of execution burden experienced by the system under test?

- A. load generator
- B. management console
- C. log analysis tool
- D. monitoring tool

**Answer: A**

#### NEW QUESTION 5

Which of the following performance tests could be best considered to be the opposite to the endurance test when comparing the duration of the tests?

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

**Answer: B**

#### NEW QUESTION 6

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 7

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 8

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. iii true i, ii, iv, v false
- F. iv true ii, iii, v false
- G. i, ii, v true iii, iv false
- H. iii, iv, v true i, ii false

**Answer:** C

#### NEW QUESTION 9

How does a performance test script determine the duration of a request?

- A. Starting a counter when the result is received and stopping the counter when the request is made
- B. Entering an interrupt service routine when the request is made and returning when the result is received.
- C. Forking a child of itself and then blocking when the request is made and resuming operations when the result is received
- D. Starting a timer when the request is made and stopping the timer when a result for the request is received.

**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 495 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 business stakeholders. Which of the following sets of plan attributes would you recommend be part of this presentation?

- A. During the actual quiz, users logon gradually but play simultaneously
- B. The load injection of quiz responses will not ramp up
- C. therefore nearly 5 million quiz responses will need to be generated in a 4 second time frame with no opportunity to reach steady state. Test plans have been discussed with Operations Development and Data Center representatives and we believe the tests will tax the quiz application consistent with actual use. The JMeter monitoring system has been tuned however, with 5 million service requests over 4 seconds there is concern that the services queue measurements may be off by 25%
- D. There is a less than 10% chance of missing a scheduled quiz session due to performance test activities, which will likely cost the company \$50,000 in lost sponsor revenue and brand damage. To avoid this risk, we are scheduling Operations and Development representatives to be available during test execution. We will require that the RAID 5+1 LUNs associated with the database server cluster be broken at 22:30 and the RAID 5+1 LUNs restored, ensuring the offline set mirrors back to the RAID 5 set that was under test, at 03:00
- E. Since the client uses an asynchronous REST web services based sessions back to the QUIZ RAC services cluster, the load profile will consist of virtual users running programmed load scripts based in C# that will randomly select the correct answer following a normal distribution thus modeling the typical success distribution among users. The strict 4 second cap on user responses will translate into think times that are randomly selected between 1/2 second and just under 4 seconds using a uniform distribution
- F. If the quiz application drops more than 1% of quiz sessions, users will likely write bad reviews on app stores and other gaming sites. Performance tests will verify that system can support at least 495 million users. Planned tests, which include the simultaneous sessions test, will cost \$350,000. Since only two quizzes are scheduled a day, performance tests on the production system during the "down" times should be representative of what users experience
- G. There is a 10% chance that the production system will not be restored in time for a quiz.

**Answer:** C

#### NEW QUESTION 10

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 13

Which tool is best suited for determining resource utilization of a system component under test?

- A. load generator
- B. management console
- C. localization test tool

D. monitoring tool

**Answer:** D

#### NEW QUESTION 14

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 15

Which measurements are associated with the environments listed below?

- \* 1. Batch completion time
- \* 2. Transaction throughput
- \* 3. Data restoration duration
- \* 4. Normal use case flow duration
- \* A Technical Environment
- \* B Business Environment
- \* C Operational Environment

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

**Answer:** B

#### NEW QUESTION 20

How does service virtualization contribute to the performance test environment?

- A. Service virtualization allows the load generators to produce more load per virtual instance.
- B. Service virtualization enables the system under test to avoid functional error conditions caused by a necessary service being unavailable at the time of the performance test.
- C. Service virtualization enables load balancers to operate in a distributed environment thereby creating a realistic emulation of a production environment when available system under test equipment is inferior to production.
- D. Service virtualization allows the database to perform as if it were loaded with a data set many times larger than is actually loaded

**Answer:** B

#### NEW QUESTION 24

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 27

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 correct
- C. Degraded response over time
- D. Inadequate or graceless error handling under heavy or over-limit load

**Answer:** B

#### NEW QUESTION 30

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

- A. JDBC
- B. SOAP correct
- C. HTTPS

D. IMAP

**Answer:** B

**NEW QUESTION 34**

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 38**

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 42**

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