



## **iSQI**

### **Exam Questions CTFL-PT**

ISTQB Certified Tester Foundation Level-Performance Testing

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#### 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 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 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

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 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

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 7

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 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. 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 back-end 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, iii, iv, v include i, ii, iv exclude
- 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 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. 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

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 14

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 16

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 20

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 23

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 24

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 fader moderate-to-heavy load levelscorrect
- C. Degraded response over time
- D. Inadequate or graceless error handling under heavy or over-limit load

Answer: B

#### NEW QUESTION 28

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

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

Answer: B

**NEW QUESTION 29**

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 31**

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