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ISTQB Certified Tester Foundation Level-Performance Testing



Question: 101

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/second
- C. 1 million transactions/millisecond
- D. 200.000 transactions/second

Answer: B

Question: 102

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

Question: 103

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
- 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

Question: 104

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

Question: 105

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

Question: 106

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

Question: 107

How is transaction elapsed time determined?

- A. response time - think time
- B. response time + think time
- C. response time + think time + wait time
- D. response time + think time - wait time

Answer: B

Question: 108

What is normally performed within the principal performance testing activity called Test Analysis and Design?

- i. Determine scope of performance testing
- ii. Establish action plans should performance issues arise
- iii. in Create the test environment
- iv. Identify risks to the performance tests
- v. Determine load levels, tiring parameters, and transactions to be tested

- A. v true i, ii, m iv false
- B. ii. v true i, iii, v false
- C. i, iv true ii, iii, v false
- D. ii, iii, v true i, iv false

Answer: A

Question: 109

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

- wrong

Answer: A

Question: 110

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



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