

# iSQI

## Exam Questions CTFL-PT

ISTQB Certified Tester Foundation Level-Performance Testing



#### NEW QUESTION 1

Which of the situations test 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 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

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 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

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

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 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 simultaneous
- B. The load injection of quiz responses will not ramp u
- 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 4.95 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 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 backend and are not end-to-end
- C. Variability in user behavior, mobile devices and mobile communications introduces session drop opportunities outside application control
- E. 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
- F. 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
- G. 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.
- iv The U S Federal Trade Commission has recently sued SmartyBogusFauxApp and OutSmartMeexample.com over promises of prizes and unreliability
- v 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 9

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 10

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 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 15**

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 17**

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 21**

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 23**

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 26**

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