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Question 1

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?

Options:

A- During the actual quiz, users logon gradually but play simultaneously. The load injection of quiz responses will not ramp up. 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%

B- There is a less then10% 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

C- Since the client uses an asynchronous REST web services based sessions back to the QUZRAC 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

D- 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. There is a 10% chance that the production system will not restored in time for a quiz.

Answer:

C

Question 2

Question Type: MultipleChoice

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.

A coworker has located various test plan elements under the standard PTP sections in a draft You have been asked to analyze the quality of the draft. The complete PTP draft cannot be provided here A content sampling of the PTP is provided.

Based on the content sample below, what is the quality of the draft document when only considering the alignment of content under standard PTP sections?

Draft PTP content:

PTP Section	PTP Content Element
Performance Test Objectives:	Business leadership anticipates that the updated production environment will sustain 5 million concurrent users over the course of a quiz event.
Application Overview:	The quiz application backend consists of 10 modular multi-tier clusters that are load balanced to support participant responses. Each module consists of 10 web services platforms that are load balanced and submit to a high specification server cluster maintaining a 500 GB in-memory database.
Test Acceptance Criteria:	Ideally 5 million concurrent participants will be supported. However, despite rigorous engineering discipline in design and implementation, anomalies will occur and loss of up to 1% of sessions is acceptable throughout a quiz event. The present back-end is capable of 3.5 million concurrent users with up to a 2.5% session loss.
Testing Tools:	Fifteen ServicesDynamics load generators are located evenly across five data centers located in each of the four US regions and in central Canada. ServicesDynamics management console located at HQ will consolidate performance data from the load generators and from the FizBin platform monitoring agents collecting memory, network and CPU utilization data across the production environment.

Options:

A- 0 misalignments, good

B- 1 misalignments, good

C- 2 misalignments good

D- 3 misalignments needs improvement

Answer:

B

Question 3

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?

Options:

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 target 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

Question 4

Question Type: **MultipleChoice**

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

What is the best way to address the performance testing for concurrency?

Options:

A- Review the asynchronous session management algorithm, review the production systems implementation including load balancing and m-memory database schema, and conduct performance tests on these production systems while there are no active quiz events.

B- Conduct a network assessment of popular mobile data providers to ensure excessive frame loss and latency do not cause more than 15% of trivia answer arrivals to occur outside acceptable arrival time.

C- Enable and schedule the quiz app to act as a virtual user on users' mobile devices while the production system is in-between quiz events. This will ensure realistic end-to-end testing

D- Conduct performance tests on production systems while there are no active quiz events

Answer:

A

Question 5

Question Type: **MultipleChoice**

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

A

Question 6

Question Type: **MultipleChoice**

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

Options:

A- load generator

B- management console

C- localization test tool

D- monitoring tool

Answer:

D

Question 7

Question Type: MultipleChoice

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?

Options:

A- Frequent sudden significant increases of toad allows the SUT performance to stabilize after each |ump 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

Question 8

Question Type: **MultipleChoice**

What test script operating conditions are risks to a performance test's validity?

i. Record insertions align with transaction objective

ii. Component failure within the system under test

iii. Load generator produces low load level

iv. Database log remains synchronized with load generators time source

v. Virtual users authenticate with distinct IDs

Options:

A- i, iii true ii, iv, v false

B- ii. iii true i. iv, v false

C- ii, v true i, iii, iv false

D- iv, v true i, ii, iii false

Answer:

C

Question 9

Question Type: **MultipleChoice**

Which of the following activities Is performed last within a performance test run?

Options:

A- Configure hardware and software to meet the test goal and plan

B- Deploy load generators in places where users are located.

C- Restore original data to ensure the system is in the proper state for testing

D- Verify the test run functioned property by reviewing logs, database content and monitoring data

Answer:

C

Question 10

Question Type: **MultipleChoice**

How does service virtualization contribute to the performance test environment?

Options:

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

Question 11

Question Type: MultipleChoice

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

Options:

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