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ISTQB Certified Tester Foundation Level- Performance Testing

iSQI CTFL-PT

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QUESTION NO: 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 495 million sessions) until the last answer has been successfully recorded.

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

- A.** Review the asynchronous session management algorithm, review the production systems implementation including load balancing and in-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 NO: 2**

Server virtualization has improved deployment speed and operating-cost efficiency for many IT applications.

Which of the following architectures are very likely to utilize server virtualization that potentially suffers from performance challenges related to common host hardware resources being burdened by virtualized servers unrelated to the application under performance test?

- i. Multi-tier System
 - ii. Mobile
 - iii. in Single Computer
 - iv. Distributed
 - v. Cloud-based
- A.** i, ii, iii true iv, v false
 - B.** i, iv, v true ii, iii false
 - C.** ii, iv, v true i, iii false

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

ANSWER: B

QUESTION NO: 3

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

B. 1C,2A, 3B and 4B

C. 1C, 2B, 3A and 4A

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

E. 1A, 2B, 3B and 4A

ANSWER: D

QUESTION NO: 4

What is normally performed within the principal performance testing activity called Test

Planning and Control?

- i. Determine scope of performance testing
- ii. Organize test cases into performance test procedures
- iii. Create the test environment
- iv. Identify risks to the performance tests
- v. Determine load levels, timing parameters, and transactions to be tested

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

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

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

ANSWER: B

QUESTION NO: 5

Which of the following performance tests should we use to determine if an application meets performance expectations under typical realistic loads?

- A. spike test**
Evaluating resource utilization of unit level test objects
- B. stress test**
Testing end-to-end behaviors under various load conditions.
- C. scalability test**
Applying use cases and workflows as features are integrated
- D. load test**

Modeling of system resource requirements and/or behavior using spreadsheets or capacity planning tools

ANSWER: C

Explanation:

:

QUESTIONNO: 4

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