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# Question 1

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**Question Type:** MultipleChoice

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(REFER TO BASE SCENARIO 2): When you refer to Base Scenario 2. you are referring to the description and only the description, without any modification.

Question specific constraints: (specific constraints are not part of the Base Scenario and are specific to this question).

\* Natalie should make a presentation to the business stakeholders In order to explain the performance test plan.

Question

Which ONE of the following options contains information that should be included in Natalie's presentation to the business stakeholders?

SELECT ONE OPTION

## Options:

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- A-** A spike test shall be conducted in a test environment equivalent to the production environment. Passengers shall be removed from the production environment, disassociated and imported Into the test environment.
- B-** The cost of the spike test will be in line with the budget submitted by the cloud service provider. The test must take place in the planned timeframe and use the disassociation algorithm, that were previously agreed on.
- C-** A performance test will be conducted to verify the management applications capability to support simultaneous, i.e concurrent,

request peaks. The objective of this test (spike test) is to check that the system will be able to support the operations.

**D-** A spike test shall be conducted in the performance test environment set up by the systems manager. Preparation includes installation from the clone of the virtual machine identified for this purpose.

### **Answer:**

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C

### **Explanation:**

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When preparing a presentation for business stakeholders, it is essential to focus on high-level objectives and outcomes that align with business goals. In the context of performance testing, the stakeholders are primarily concerned with ensuring that the system can handle peak loads and maintain operational integrity.

- \* Option A talks about the setup of the test environment and the logistics of passenger data, which is too technical for business stakeholders.
- \* Option B focuses on budget and timeline, which are relevant but do not directly address the performance test's purpose and objectives.
- \* Option C clearly states the purpose of the performance test (spike test) and its objective, which is to verify that the system can support concurrent request peaks, directly aligning with business interests.
- \* Option D again focuses on technical details about the test environment setup, which is not the primary concern for business stakeholders.

Therefore, Option C is the most appropriate choice as it succinctly communicates the performance test's objective and its relevance to business operations.

## Question 2

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**Question Type:** MultipleChoice

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Base Scenario 2 : This Base Scenario 2 is used for 8 questions throughout this exam. When you refer to Base Scenario 2, you are referring to this description and only this description, without any modification.

Natalie works for a company that develops an online check-in management software for a major international airline.

Online check-in is available for passenger check-in from 24 to 1 hour before boarding time.

Once the registration is confirmed by the customer and the system, the information must be available to the rest of the types of users (flight managers, among others) in a maximum time of 3 seconds (it is expected that this temporal constraint is met in 90% of the transactions and that 90% of the transactions are completed at 100%).

At the beginning of the check-in window, there are peaks of 100 users per minute, for one minute.

Question

Which of the following options is a performance-related business objective that could be suitable for this project?

## SELECT ONE OPTION

### Options:

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- A-** The system must be capable of supporting peak concurrent users in excess of 6,000 users per hour for one minute, accessing check-in without performance degradation, considering that peaks must not exceed a value that exceeds the processing capacity of the system.
- B-** The system must be able to support peak attendance of 1,000 users, considering that there cannot be more than two flights with overlapping schedules.
- C-** The system must be able to support 200 concurrent users with a response time of one second for the issuance of the boarding pass, considering that the fleet is likely to have a very high percentage of medium size aircraft.
- D-** The system must have a completion time of up to three seconds for 2,000 concurrent users for updating passenger check-in data

### Answer:

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A

### Explanation:

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Given the scenario of online check-in with peak user activity, the most suitable performance-related business objective would be to ensure that the system can handle a high number of concurrent users within a short period without performance degradation. Option A directly addresses the requirement to support peak loads while maintaining system performance, which aligns with the specified peak of 100 users per minute.

\* ISTQB Performance Testing Syllabus

\* ISTQB Glossary

## Question 3

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**Question Type: MultipleChoice**

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Refer to Base Scenario 1: When you refer to Base Scenario 1, you are referring to the description and only the description, without any modification.

Question specific constraints: (specific constraints are not part of the Base Scenario and are specific to this question).

\* The project follows an iterative and Incremental development life cycle model.

\* Development approach: Agile.

Question

Which of the statement(s) below is (are) TRUE regarding how the performance test is undertaken?

1. The performance test can have a dedicated iteration in a specific way.
2. Performance testing should be performed in a cloud-based performance test environment

3. The performance test may be conducted by a specific team.

4. A performance test cycle must be performed in each iteration by the development team (Agile).

SELECT ONE OPTION

### Options:

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A- True statements: IV.

B- True statements: III, IV.

C- True statements: II, III.

D- True statements: I, III.

### Answer:

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B

### Explanation:

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In an Agile, iterative, and incremental development model:

\* III: The performance test may be conducted by a specific team. This is true as dedicated performance testing teams often handle complex performance testing tasks.

\* IV: A performance test cycle must be performed in each iteration by the development team (Agile). This ensures that performance testing is integrated into each iteration to catch performance issues early.

Statements I and II are not necessarily true:

\* I: While possible, it is not always the case that there will be a dedicated iteration for performance testing.

\* II: Performance testing in a cloud-based environment is beneficial but not mandatory.

\* ISTQB Performance Testing Syllabus

\* ISTQB Agile Tester Extension Syllabus

## Question 4

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### Question Type: MultipleChoice

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Base Scenario 1: This Base Scenario 1 is used for 2 questions throughout this exam. When you refer to Base Scenario 1, you are referring to this description and only this description, without any modification.

k given project for the development of a management software that will have a multilayer architecture will enable its users to install it in multiple locations, nationally and internationally - each installation can operate independently and communicate with other instances in a selective way. Each installation shall have a high processing capacity.



Question specific constraints: (specific constraints are not part of the Base Scenario and are specific to this question).

\* The project follows a sequential development life cycle model.

Question

Which is the right moment in the project to analyze and evaluate the performance risks?

SELECT ONE OPTION

**Options:**

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**A-** After design but before coding.

**B-** During the requirements activities and again before running the performance test.

**C-** During the analysis and design activities as well as, again, before each performance test cycle.

**D-** Repeatedly throughout the development phases (including requirements activities) and the performance test itself.

**Answer:**

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D

**Explanation:**

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Performance risks should be analyzed and evaluated continuously throughout the development lifecycle, especially in projects with high processing capacity and independent operation across multiple locations. This ongoing evaluation helps to identify and mitigate risks early and adapt to any changes that occur during development.

\* ISTQB Performance Testing Syllabus

\* ISTQB Advanced Level Test Manager Syllabus

## Question 5

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**Question Type: MultipleChoice**

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Identify the correspondences between the different tools (listed from 1 to 3) and their objectives and characteristics (listed from A to F).

1. Load generator.

2. Load management console.

3. Monitoring tool.

1. It monitors, records and/or analyzes the behavior of the component or system under test.

2. It creates the load and also collects the metrics for later communication.

3. It provides the control to start and stop the creation and execution of the user simulation.

4. It aggregates metrics from the various transactions that are defined within the load instances
5. It creates and runs multiple client instances that simulate user behavior.
6. It can effectively support a root cause analysis of performance in a system under test.

SELECT ONE OPTION

**Options:**

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- A- 1A- 1E-2A-2C-2D-3F.
- B- 1B-1E-2C-2D-3A-3F.
- C- 1B-1A-2A-2D-3C-3F
- D- 1B- 1F-2C-2F-3A-3D.

**Answer:**

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B

**Explanation:**

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The correct associations between the tools and their objectives and characteristics are:

1. Load generator:

o 1B: It creates the load and also collects the metrics for later communication.

o 1E: It creates and runs multiple client instances that simulate user behavior.

2. Load management console:

o 2C: It provides the control to start and stop the creation and execution of the user simulation.

o 2D: It aggregates metrics from the various transactions that are defined within the load instances.

3. Monitoring tool:

o 3A: It monitors, records, and/or analyzes the behavior of the component or system under test.

o 3F: It can effectively support a root cause analysis of performance in a system under test.

\* ISTQB Performance Testing Syllabus

\* ISTQB Glossary

## Question 6

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**Question Type: MultipleChoice**

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Select the ONE option that describes the mechanism used to extract metrics associated with deadlocks and multi threading problems

SELECT ONE OPTION

**Options:**

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- A- Direct measurement from a dynamic performance test.
- B- Analysis and elaboration of metrics from a dynamic performance test.
- C- Direct measurement through a performance monitoring tool.
- D- Scan server logs and compile metrics from them.

**Answer:**

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C

**Explanation:**

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Direct measurement through a performance monitoring tool is the most effective mechanism for extracting metrics associated with deadlocks and multithreading problems. These tools can provide real-time insights into the system's performance, highlighting issues such as thread contention, deadlocks, and resource bottlenecks. ISTQB performance testing principles advocate the use of specialized monitoring tools to capture detailed performance metrics, facilitating the identification and resolution of complex multithreading issues.

## Question 7

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**Question Type:** MultipleChoice

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What are the main activities of performance test execution?

1. Monitoring all parts of the environment.
2. Setting up the load generation and monitoring tools.
3. Collecting and keeping all results and information related to the test.
4. Generation of a load against the SUT according to a load profile.
5. Parameterize the test scripts.
6. Setting up the system under test.

SELECT ONE OPTION

### Options:

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**A-** The following are performance test activities: III, IV.

**B-** The following are performance test activities: I, III. IV.

**C-** The following are performance test activities: I, V, VI.

**D-** The following are performance test activities: I, III, VI.

### **Answer:**

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B

### **Explanation:**

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The main activities of performance test execution include:

- \* I. Monitoring all parts of the environment: Ensures that performance metrics are collected from various components to provide a comprehensive view of the system's performance.
- \* III. Collecting and keeping all results and information related to the test: Essential for analyzing the performance test outcomes and identifying areas for improvement.
- \* IV. Generation of a load against the SUT according to a load profile: Simulates the expected user load to assess how the system performs under typical and peak conditions.

These activities align with ISTQB guidelines, which emphasize thorough monitoring, data collection, and load generation as critical components of effective performance testing.

## Question 8

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**Question Type:** MultipleChoice

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Which ONE of the following mechanisms is used to make the load test represent a load situation in a real production environment?

SELECT ONE OPTION

### Options:

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- A- Generate load through the Application Programming Interface (API).
- B- Configure environments with multiple points of presence.
- C- Generate load through the User Interface.
- D- Gradually restrict system resources during the load test.

### Answer:

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C

### Explanation:

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Generating load through the User Interface (UI) is essential to replicate a real production environment accurately. This approach simulates real user interactions with the system, providing a more realistic assessment of how the system performs under actual usage



conditions. According to ISTQB standards, using the UI to generate load helps identify performance issues that users might experience, ensuring that the test results are relevant and actionable.

## Question 9

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**Question Type:** MultipleChoice

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Which ONE of the following options is NOT an advantage of aggregating results from performance testing?

SELECT ONE OPTION

### Options:

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- A- Different stakeholders can see the speed at which a specific business process is performed end-to-end.
- B- Performance trends can be identified
- C- Performance metrics can be reported in an understandable way.
- D- Business and project stakeholders can see the overall status of system performance.

### Answer:

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D

### **Explanation:**

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Aggregating results from performance testing allows for the identification of performance trends, reporting of metrics in an understandable way, and providing stakeholders with insights into the speed of specific business processes. However, it does not necessarily provide an overall status of system performance. Instead, it focuses on detailed metrics and trends. ISTQB guidelines highlight the importance of presenting performance metrics clearly but recognize that aggregated data does not equate to a comprehensive status overview of the entire system's performance.

## **Question 10**

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**Question Type:** MultipleChoice

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Which ONE of the following options is a specific performance risk in mobile applications?

ONE OPTION

**Options:**

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- A- Network congestion.
- B- Slow data flow from sensors.
- C- Limited resources.
- D- Inefficient Implementation of algorithms.

**Answer:**

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C

**Explanation:**

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Mobile applications often face performance risks due to the limited resources available on mobile devices, such as CPU, memory, battery, and network bandwidth. These constraints can significantly impact the performance of mobile applications, leading to slower response times and degraded user experiences. ISTQB performance testing guidelines emphasize considering the specific resource limitations of mobile environments to ensure comprehensive performance evaluation and optimization.

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