

ASTQB Foundation Level Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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SAMPLE

Questions

- 1. What does a Case statement allow in terms of execution paths?**
 - A. Multiple paths with no default execution**
 - B. A single path only if conditions are true**
 - C. One true condition and a false default event**
 - D. Only sequential execution of statements**
- 2. Which area does Performance Testing NOT specifically assess?**
 - A. System robustness**
 - B. Code quality**
 - C. Response times**
 - D. Concurrent user load**
- 3. In software testing, what does a driver do?**
 - A. Imitates a called component**
 - B. Invokes the component being tested**
 - C. Tests the overall system performance**
 - D. Replaces an incomplete component**
- 4. Which is NOT considered a product risk area?**
 - A. Reliability**
 - B. Budget constraints**
 - C. Usability**
 - D. Data Integrity**
- 5. What is a key focus of functional testing?**
 - A. System performance under stress**
 - B. Interoperability of components**
 - C. Analyzing internal code structure**
 - D. Checking for user accessibility**
- 6. What does impact analysis evaluate?**
 - A. The speed of the system**
 - B. How changes might affect uncharged areas**
 - C. The user satisfaction level**
 - D. The functionality of the system**

- 7. Which of the following is NOT a type of flow diagram mentioned?**
- A. Architecture or Design Flow**
 - B. Control Flow**
 - C. Lazy Flow**
 - D. Data Flow**
- 8. In the context of testing, what is a primary goal of automation testing?**
- A. To reduce manual effort and testing time**
 - B. To replace all human testers**
 - C. To focus exclusively on user interface testing**
 - D. To develop testing tools**
- 9. Which of the following best describes project risk assessment?**
- A. It focuses on the financial implications of a project**
 - B. It helps identify strategies to reduce the impact of problems in a testing project**
 - C. It exclusively assesses the team's capabilities**
 - D. It prioritizes risks based on stakeholder interests**
- 10. What does white box testing primarily focus on?**
- A. Testing the functionality of an application**
 - B. Testing user interface design**
 - C. Testing internal structures or workings of an application**
 - D. Testing compatibility with different platforms**

Answers

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1. C
2. B
3. D
4. B
5. B
6. B
7. C
8. A
9. B
10. C

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Explanations

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1. What does a Case statement allow in terms of execution paths?

- A. Multiple paths with no default execution**
- B. A single path only if conditions are true**
- C. One true condition and a false default event**
- D. Only sequential execution of statements**

A Case statement is designed to evaluate a variable or expression against a series of conditions and to execute the corresponding block of code for the first condition that evaluates to true. This means that within a Case statement, there can be multiple paths based on different possible values or conditions. What makes option C the correct choice is that it highlights the capability of the Case statement to identify one true condition to execute its associated actions, while also allowing for a default action in case none of the specified conditions are met. The default path is generally defined to handle scenarios that don't match any of the listed conditions, which allows structured control over the flow of execution. In contrast to this, other options suggest limitations or characteristics that don't fully capture the functionality of a Case statement. For instance, the idea of multiple paths without a default execution does not align with how a Case typically functions, as it is designed to provide a reliable way to handle various conditions, including potential defaults. Similarly, constraints on executing a single path only under true conditions overlook the whole functionality of defining a default execution path. Sequential execution of statements is also not the primary design of a Case statement since it is focused on conditional branching rather than mere sequential execution.

2. Which area does Performance Testing NOT specifically assess?

- A. System robustness**
- B. Code quality**
- C. Response times**
- D. Concurrent user load**

Performance Testing primarily focuses on assessing how a system performs under various conditions, particularly in terms of speed, scalability, and stability. While it evaluates aspects such as response times and the ability to handle concurrent user loads, code quality is not a direct focus of this type of testing. Code quality typically pertains to aspects like maintainability, readability, and adherence to coding standards. While high code quality can indirectly influence performance (for example, through efficient algorithms), Performance Testing itself does not assess code quality directly; rather, it measures how the system as a whole behaves when subjected to performance-related challenges. In summary, while Performance Testing looks at system robustness, response times, and the ability to handle concurrent loads, it does not specifically assess the quality of the codebase itself, which is why code quality is the correct answer in this context.

3. In software testing, what does a driver do?

- A. Imitates a called component
- B. Invokes the component being tested
- C. Tests the overall system performance
- D. Replaces an incomplete component**

In software testing, a driver serves as a simulation for a called component that is not yet developed or is incomplete in some way. It allows the testing of individual units or components in isolation by providing the necessary interface for invoking functions or methods of the component under test. When a driver replaces an incomplete component, it helps to facilitate a testing environment where the functionality of the unit can be validated even if other dependent modules are not available. This ensures that developers can continue to work on different parts of the software without waiting for all components to be fully developed. By using a driver, testers can focus on verifying the behavior and performance of the component under test while maintaining a continuum in the development process. Other options do not accurately characterize the role of a driver in the testing process, thereby reinforcing the focus on the right function and utility of a driver in unit testing scenarios.

4. Which is NOT considered a product risk area?

- A. Reliability
- B. Budget constraints**
- C. Usability
- D. Data Integrity

Budget constraints fall outside the typical scope of product risk areas, which focus on characteristics directly related to the performance and quality of the product itself. Reliability, usability, and data integrity directly influence how well a product functions and how it meets user expectations and requirements. Reliability looks at the likelihood that a product will perform its required functions under stated conditions for a specified period, which is a critical aspect of product risk. Usability evaluates how easily and effectively users can interact with the product, impacting user satisfaction and acceptance. Data integrity ensures that the data within the system is accurate, consistent, and trustworthy, which is vital for the system's overall functionality and security. In contrast, budget constraints relate more to the project's financial limitations rather than the product's inherent qualities or risks. While budget constraints can impact the development process and the resources available to mitigate product risks, they do not represent a risk area associated with the product itself. Instead, they are a factor influencing how the product is developed and delivered.

5. What is a key focus of functional testing?

- A. System performance under stress
- B. Interoperability of components**
- C. Analyzing internal code structure
- D. Checking for user accessibility

Functional testing primarily focuses on verifying that the software system operates according to specified requirements. It assesses the functions of the application against the defined specifications, ensuring that each feature behaves as expected. While interoperability of components is an important aspect, functional testing is more concerned with whether the individual functions of the system fulfill the user's needs. The emphasis on functional testing involves checking the correctness of the functionality, including input processing, output generation, and error handling, based on various test cases. This means that the tests validate the interactions and responses of the system's components but not specifically how those components interact across different systems or platforms, which would typically fall under the scope of integration testing. Other options touch on important aspects of software quality assurance, but they do not align with the primary objectives of functional testing. For instance, system performance under stress is a focus of performance testing, analyzing internal code structure relates to static code analysis or structural testing, and checking for user accessibility involves evaluating accessibility standards, which are critical for end-user experience but are not the core emphasis of functional testing itself.

6. What does impact analysis evaluate?

- A. The speed of the system
- B. How changes might affect uncharged areas**
- C. The user satisfaction level
- D. The functionality of the system

Impact analysis is a systematic method used to evaluate potential consequences of a change in a system. This process is crucial in software testing and development, as it helps identify how modifications might affect areas that are not directly changed. By assessing the ripple effects of a change, impact analysis enables teams to anticipate issues, avoid unintended consequences, and ensure that the overall integrity of the system remains intact. In applying this to software, it allows for better planning, prioritization of testing efforts, and ultimately leads to more robust and reliable releases. Understanding how changes impact uncharged areas ensures that all possible ramifications are considered before implementing modifications, which promotes thoroughness in change management. The other options, while important aspects of software quality and performance evaluation, do not encapsulate the primary purpose of impact analysis. For instance, measuring the speed of the system pertains to performance testing, user satisfaction is linked to usability testing and user feedback mechanisms, and assessing functionality focuses on whether the system behaves as expected. Impact analysis specifically targets the evaluation of change effects rather than these broader testing dimensions.

7. Which of the following is NOT a type of flow diagram mentioned?

- A. Architecture or Design Flow**
- B. Control Flow**
- C. Lazy Flow**
- D. Data Flow**

The correct choice, which is "Lazy Flow," represents a type of flow diagram that is not recognized within established categories typically discussed in software testing or system design. Flow diagrams are valuable tools in illustrating various aspects of processes, system structures, or data movement within software applications. Control Flow, Data Flow, and Architecture or Design Flow are all well-established types of flow diagrams used in software engineering and testing to represent the sequence of operations, the flow of data, and the structural design of systems respectively. Control flow diagrams highlight the logical flow of control through a system's processes, while data flow diagrams focus on how data moves through a system, showing data inputs, outputs, and storage points. Architecture or Design flow diagrams outline the high-level structure and relationships among various components and systems. In contrast, "Lazy Flow" does not refer to any recognized category or method of diagramming in this context, making it the option that does not fit within the established types of flow diagrams.

8. In the context of testing, what is a primary goal of automation testing?

- A. To reduce manual effort and testing time**
- B. To replace all human testers**
- C. To focus exclusively on user interface testing**
- D. To develop testing tools**

The primary goal of automation testing is to reduce manual effort and testing time. Automation helps speed up the testing process by running tests using software tools instead of executing them manually, which can be time-consuming and prone to human error. By automating repetitive and routine tests, teams can focus their resources on more complex scenarios that require human insight and judgment. This efficiency allows for more frequent testing cycles, leading to quicker detection of defects and improved overall software quality. While the other options may contain some elements related to testing, they do not accurately reflect the primary goal of automation testing. For instance, replacing all human testers is not feasible or desirable since human judgment is invaluable for exploratory testing and understanding user experience. Additionally, automation does not focus exclusively on user interface testing; it can be applied to various types of testing, including backend and API tests. Developing testing tools is a part of the automation process but is more of a means to an end rather than the primary goal itself.

9. Which of the following best describes project risk assessment?

- A. It focuses on the financial implications of a project**
- B. It helps identify strategies to reduce the impact of problems in a testing project**
- C. It exclusively assesses the team's capabilities**
- D. It prioritizes risks based on stakeholder interests**

Project risk assessment involves identifying potential risks that could negatively impact a project's success and determining strategies to mitigate those risks. The core purpose of risk assessment in a project environment, particularly in testing, is not just to recognize risks but also to proactively address them, ensuring that the project can proceed smoothly despite uncertainties. By focusing on creating strategies to reduce the impact of problems that may arise during the testing process, this aspect of risk assessment helps maintain quality, ensures that testing objectives are met, and facilitates timely delivery of the project results. It involves examining various factors such as the technical aspects, timelines, resource availability, and processes in place, which all contribute to creating a robust approach to managing potential challenges. This perspective ensures that the project team can anticipate difficulties, adapt their testing strategies accordingly, and implement measures to either avoid risks entirely or lessen their potential impact on the project's success. In contrast, the other choices do not encapsulate the comprehensive nature of project risk assessment, as they either narrow the focus too much or overlook the imperative of strategic planning in risk management.

10. What does white box testing primarily focus on?

- A. Testing the functionality of an application**
- B. Testing user interface design**
- C. Testing internal structures or workings of an application**
- D. Testing compatibility with different platforms**

White box testing primarily focuses on examining the internal structures or workings of an application. This method involves a deep understanding of the code, its architecture, and the underlying logic that governs the application's behavior. By analyzing the internal components, testers can ensure that various paths through the code are executed, which helps in identifying hidden errors that might not be visible through external testing methods. This technique typically employs a variety of testing methods, such as code coverage analysis, path testing, and loop testing, to scrutinize the application's logic and control flow. It is particularly effective in identifying logical errors and vulnerabilities within the code, ensuring each part of the application works as intended and adheres to coding standards. The focus on internal workings differentiates white box testing from other testing types that might prioritize user interface, functionality, or compatibility aspects of the application.