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Question 1

Question Type: MultipleChoice

Which tasks are typically performed by a tester on an Agile project?

- i) Implementing test strategy.
- ii) Documenting business requirements.
- iii) Measuring and reporting test coverage.
- iv) Coaching development team in relevant aspects of testing.
- v) Executing test-driven development tests.

SELECT ONE OPTION

Options:

A- i, iii, iv

B- ii, iv, v

C- ii, v

D- i, iii

Answer:

A

Explanation:

In an agile project, testers often perform tasks beyond traditional testing roles, including implementing test strategy (i), measuring and reporting test coverage (iii), and coaching the development team on relevant aspects of testing (iv). Implementing test strategy involves planning how testing will be conducted within the agile framework, ensuring that testing aligns with agile principles and practices. Measuring and reporting test coverage help the team understand the extent to which the codebase is tested, which is crucial for maintaining quality in fast-paced agile environments. Coaching the development team involves sharing knowledge on testing best practices and fostering a quality-centric mindset across the team. These activities contribute to the collaborative and iterative nature of agile projects, where continuous feedback and improvement are emphasized.

Question 2

Question Type: MultipleChoice

You have been asked to execute an exploratory testing session on Park & Ride system. The test charter has been titled as "Buy a bus ticket". As a result, a number of defects were reported, the titles of which are listed below.

Which defect is out of scope for the given test charter?

SELECT ONE OPTION

Options:

- A- Failed to buy a bus ticket when the network connection to the Central System is down.
- B- Price for a bus ticket was calculated incorrectly.
- C- Failed to buy a bus ticket after 18:00.
- D- Payment for parking ticket is restricted to cash only (no credit card supported).

Answer:

D

Explanation:

The defect titled 'Payment for parking ticket is restricted to cash only (no credit card supported)' is out of scope for the given test charter titled 'Buy a bus ticket' because it pertains to a different functionality not covered by the charter. The charter focuses on the process of purchasing a bus ticket, which involves functionality such as selecting a ticket type, choosing a journey, and completing the transaction. A defect related to payment methods for a parking ticket does not relate to these functions and is therefore considered out of scope for the testing session focused on buying a bus ticket.

Question 3

Question Type: MultipleChoice

Which ONE of the following is a testable acceptance criterion?

SELECT ONE OPTION

Options:

- A- The system shall be easy to use.
- B- The tools for testing are tested before use and are meeting the requirements.
- C- The response time to confirm a customer submission must not exceed 5 seconds.
- D- The solution shall support business processes.

Answer:

C

Explanation:

A testable acceptance criterion must be specific, measurable, and verifiable, which makes option C the correct choice. Stating that 'the response time to confirm a customer submission must not exceed 5 seconds' provides a clear, quantifiable measure that can be tested to determine whether the criterion has been met. This contrasts with more subjective criteria, such as the system being 'easy to use,' which cannot be easily quantified or measured in a straightforward manner. The specificity of the response time allows for the creation of test cases that can confirm whether the system meets this particular requirement, thus making it a testable acceptance criterion.

Question 4

Question Type: MultipleChoice

Which of the following is a benefit of a whole-team approach?

SELECT ONE OPTION

Options:

- A-** Enables testers to execute their responsibility for quality for the combined team
- B-** Enables the team to focus on solely their separate areas of expertise and responsibility.
- C-** Enables reduction in test duplication as the testers and test engineers function as a single team.

D- Enables the various skill sets within the team to be leveraged to the benefit of the project.

Answer:

D

Explanation:

The whole-team approach in agile methodologies is beneficial because it leverages the diverse skill sets within the team for the project's benefit. In this collaborative environment, team members, including developers, testers, and business analysts, work closely together from the project's outset. This close collaboration ensures a better understanding of the project goals, more innovative solutions to problems, and a higher quality product. The whole-team approach encourages knowledge sharing and collective problem-solving, leading to more efficient and effective project outcomes. This approach contrasts with traditional methodologies, where roles are more siloed, and collaboration between different roles occurs less frequently.

Question 5

Question Type: MultipleChoice

Why is regression of software a high risk in agile projects?

SELECT ONE OPTION

Options:

- A- There is code churn due to change in business needs over several sprints.
- B- Test automation can cause regression of software in the test environment.
- C- Regression is built into software as a safeguard against unexpected failures.
- D- Test-driven development means that existing functionality is not considered.

Answer:

A

Explanation:

In agile projects, the high risk of regression is primarily due to the code churn that occurs as business needs change over the course of several sprints. This is inherent in the agile process, where requirements and solutions evolve through collaborative effort. The iterative nature of agile projects means that as new features are added or existing features are modified to meet evolving business needs, previously tested and stable parts of the software might be affected, leading to potential regression issues. This phenomenon is well-recognized in agile methodologies and necessitates rigorous regression testing practices to ensure that new changes do not adversely affect existing functionalities.

Question 6

Question Type: MultipleChoice

Which of the following allows a developer to define accurate unit tests focused on business needs?

SELECT ONE OPTION

Options:

- A- Behavior-Driven Development
- B- Design-Driven Development
- C- Test-Driven Development
- D- Acceptance Test-Driven Development

Answer:

A

Explanation:

Behavior-Driven Development (BDD) allows developers to define accurate unit tests focused on business needs by bridging the communication gap between technical and non-technical team members. BDD uses scenarios in plain language that describe the

behavior of the application from the end-user's perspective, ensuring that the development focus remains on delivering features that provide real value to the business.

Question 7

Question Type: MultipleChoice

Which of the following is a risk that continuous integration introduces?

SELECT ONE OPTION

Options:

- A-** Testers sometimes have too many builds to test, which reduces the quality of testing.
- B-** Developer's workload is increased, which can result in a reduction of output.
- C-** Teams no longer have the ability to run manual tests, as all tests must be automated.
- D-** Teams sometimes over-rely on unit tests and exclude some important system and acceptance tests.

Answer:

A

Explanation:

Continuous integration introduces the risk of having too many builds for testers to evaluate, potentially reducing the quality of testing. With frequent integration of new code and automated builds, testers may face challenges in keeping up with the pace, leading to less thorough testing and the possibility of defects slipping through.

Question 8

Question Type: MultipleChoice

You are a tester in an agile team. The user story you are due to test is still under development so your tests are blocked. The main issue holding progress on this user story is that the developer's unit tests are constantly failing.

As an agile tester, which of the following actions should you take?

SELECT ONE OPTION

Options:

- A-** Create a bug report for each of your blocked tests.
- B-** Review the design of the problematic user story and improve it where possible.
- C-** Work together with the developer, suggesting reasons why the tests are failing.
- D-** Use the time to improve and automate existing test cases of other user stories.

Answer:

C

Explanation:

In Agile teams, collaboration and direct communication are key. When faced with blocked tests due to ongoing development or failing unit tests, an agile tester should collaborate with the developer to identify and resolve the issues. This approach encourages teamwork, knowledge sharing, and problem-solving, leading to more efficient and effective resolution of blocking issues.

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