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Question 1

Which agile development approach incorporates the following practices:

- a project is divided into iterations called sprints

- each sprint results in a potentially releasable/shippable product?

SELECT ONE OPTION

Options:

A- Kanban

B- Continuous Integration

C- Scrum

D- Extreme Programming

Answer:

C

Explanation:

Scrum is the agile development approach that incorporates the practice of dividing a project into iterations called sprints, with each sprint resulting in a potentially releasable/shippable product. Scrum's iterative and incremental approach allows teams to deliver working software frequently, with a focus on delivering tangible value to the customer at the end of each sprint.

Question 2

Question Type: MultipleChoice

Which of the following activities are done in release planning?

i. Identifying testable user stories with acceptance criteria.

ii. Elaborating the user stories into tasks.

iii. Prioritizing the user stories.

iv. Creating acceptance tests for the user stories.

v. Analyzing risks for each of the user stories.

vi. Performing high level estimation for the release.

SELECT ONE OPTION

Options:

A- Activities i. iii and vi

B- Activities ii, iii and v

C- Activities ii and iv

D- Activities i, iv and vi

Answer:

A

Explanation:

In release planning for Agile project management, activities such as identifying testable user stories with acceptance criteria (i), prioritizing the user stories (iii), and performing high-level estimation for the release (vi) are essential. These activities ensure that the team has a clear understanding of what needs to be delivered, the order of importance of the deliverables, and an estimate of the effort required to achieve the release goals.

Question 3

User Story: As a user I want to be able to calculate tax percentage based on amount of income.

What is the best black box test design technique for verifying the accuracy of this user story?

SELECT ONE OPTION

Options:

A- User story testing - test that the user can enter an income amount and get a result

B- Equivalence partitioning - test with low, medium and high income.

C- Statement testing - test all statements in income calculation.

D- State transition testing - test all states of income entry.

Answer:

B

Explanation:

Equivalence partitioning is a black box test design technique suitable for verifying the accuracy of user stories like the one described. It involves dividing input data of a software unit into partitions of equivalent data from which test cases can be derived. For a user story involving tax percentage calculation based on income, Equivalence Partitioning allows the creation of test cases for different income ranges (low, medium, high) to ensure that the system accurately calculates tax percentages for each partition, thus covering various scenarios within the application's functionality.

Question 4

Your agile team is using the Testing Quadrants to ensure that all important test levels and test types are covered in the test plan.

In relation to Quadrant 3 - business facing and product critique, what should be considered for the plan?

SELECT ONE OPTION

Options:

A- Prototype testing

B- Performance Testing

C- Exploratory Testing

D- Functional Testing

Answer:

C

Explanation:

Exploratory Testing is aligned with Quadrant 3 of the Testing Quadrants, which emphasizes business-facing tests that critique the product. This quadrant focuses on testing aspects that cannot be fully planned in advance and require a more ad-hoc, investigative approach to uncover issues from a business or user perspective. Exploratory Testing involves simultaneous learning, test design, and test execution, making it suitable for assessing the usability, relevance, and overall value of the product to the business, aligning with the goals of Quadrant 3.

Question 5

Question Type: **MultipleChoice**

You are working in a software development company which, for many years, used a sequential development model and was organized into separate departments for each functional group (e.g. business analysts, developers, testers) located within their own office space.

Your organization has recently changed to a SCRUM agile framework. Which of the following is an important organizational and behavioral best practice for a tester in the SCRUM team that should have also been practiced when using the sequential model?

SELECT ONE OPTION

Options:

A- ( ) Credibility means that the tester must share information with the stakeholders about the test process so that they find the selected test strategy and testing activities trustworthy.

B- Resilient testing means that the testing process is capable of dealing with rapid changes throughout the development process with test plans being updated during each iteration.

C- Co located teamwork means that all team members, including developers and testers, must sit together in the same office, so they can quickly communicate face-to-face.

D- Cross-functional teamwork means that all team members contribute to testing in various ways. For example, involving people with the test strategy, test planning and execution as well as test reporting.

Answer:

D

Explanation:

Cross-functional teamwork is a cornerstone of Agile methodologies, emphasizing the collaboration of team members with diverse expertise to enhance project outcomes. In Agile frameworks like Scrum, teams are encouraged to be self-organizing and multidisciplinary, with each member contributing to all project areas, including testing, regardless of their primary role. This approach promotes a shared responsibility for the project's success, fosters a deeper understanding of the project from multiple perspectives, and enhances the team's ability to respond to changes effectively. It aligns with Agile principles that advocate for the best architectures, requirements, and designs emerging from self-organizing teams, underscoring the value of collective ownership and collaboration in achieving project goals.

Question 6

Question Type: **MultipleChoice**

Which of the following statements about a test charter are CORRECT?

i) It is used mainly in exploratory tests.

ii) It is used to monitor a test process.

iii) It may make reference to user stories.

iv) It contains notes taken during a test session.

v) It is used to outline the company test policy.

SELECT ONE OPTION

Options:

A- i, iii, iv

B- ii, iv, v

C- ii, iii, iv

D- ii. v

Answer:

A

Explanation:

A test charter is primarily used in exploratory testing (i) to guide the test session with a clear mission or objective, which might be related to specific functionalities, user stories, or areas of the application, making reference to user stories (iii) plausible. It also contains notes taken during the test session (iv), which are crucial for documenting observations, anomalies, and insights gained during exploratory testing. This approach aligns with Agile's emphasis on individuals and interactions and responding to change, as exploratory testing is inherently adaptive and relies on the tester's skill, creativity, and intuition. It contrasts with more traditional, documentation-heavy approaches, emphasizing the value of working software and collaboration.

Question 7

Which of the following statements is FALSE regarding early and frequent feedback?

SELECT ONE OPTION

Options:

A- Early feedback provides the Agile team with information on its productivity.

B- Early feedback promotes early discovery and resolution of quality problems.

C- Early feedback decreases the amount of time needed for system testing.

D- Early feedback helps to deliver a product that better reflects what the customer wants.

Answer:

C

Explanation:

Early and frequent feedback is fundamental in Agile methodologies to ensure the product meets customer needs and to identify and resolve issues promptly. However, the statement that early feedback decreases the time needed for system testing (Option C) is misleading. While early feedback helps in identifying and resolving issues at an early stage, it does not necessarily reduce the overall time required for system testing. System testing is a comprehensive phase that assesses the system's compliance with the specified requirements. Agile practices, such as continuous integration and testing, aim to maintain a high quality throughout the development process, but they do not eliminate the need for thorough system testing to validate the product before release.

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