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Question 1

Question Type: MultipleChoice

During a retrospective, which of the following items would be the LEAST effective to generate discussions on process improvement?

SELECT ONE OPTION

Options:

- A- The automation tests failed frequently without any logs to help in debugging the failure reason.
- B- For the last sprint the estimated and actual effort were much higher than the team capacity.
- C- One of the testers was regarded as being both disruptive and lazy and did not contribute to team success.
- D- The build process was slow and this often caused delays waiting for the build to complete.

Answer:

C

Explanation:

Agile retrospectives focus on the process, practices, and tools, rather than personal critiques. The effectiveness of a retrospective lies in its ability to foster a positive, constructive environment where the team can discuss what worked well, what didn't, and how to improve going forward. Focusing on an individual's perceived shortcomings, such as being 'disruptive and lazy' (Option C), does not align with the Agile principle of building projects around motivated individuals and trusting them to get the job done. It could lead to a negative atmosphere, reducing the team's willingness to openly share and collaborate on solutions. Instead, retrospectives should concentrate on actionable items that can lead to process improvements, such as addressing frequent automation test failures, discrepancies in effort estimations, and delays in the build process, as mentioned in options A, B, and D respectively.

Question 2

Question Type: MultipleChoice

Which of the following statements about the Planning poker test estimate technique are CORRECT?

- i) Planning poker is a consensus based technique using a deck of cards.
- ii) A low test estimate usually means the story should be broken down into multiple smaller stories.
- iii) A high test estimate usually means the story should be broken down into multiple smaller stories.
- iv) One poker round is played and then consensus has to be reached.
- v) The risk level of each backlog item should be decided before the poker session.

SELECT ONE OPTION

Options:

A- i, iii, v

B- ii, iv

C- i, ii, iii

D- ii, iii, iv

Answer:

C

Explanation:

Planning poker, a consensus-based estimation technique used in Agile planning sessions, involves team members making estimates by playing numbered cards face-down to the table, avoiding the influence of other participants. This process promotes a collective understanding and agreement on effort estimations. Statements i, ii, and iii accurately reflect the principles of Planning Poker. It's a consensus-based technique (i), and if the estimates are too high (iii) or too low (ii), it often indicates that the user story is not well understood or is too complex, suggesting it should be broken down into smaller, more manageable pieces. This approach aligns with Agile's preference for small, incremental changes that can be easily managed and adapted, fostering collaboration and collective decision-making within the team.

Question 3

Question Type: MultipleChoice

Which two of the following statements are CORRECT with regards to test automation on agile projects?

- i) Every test developed for past iterations is kept and executed as part of a regression suite for each new release of code.
- ii) It would be very difficult to ensure high quality in an agile project without test automation.
- iii) Automated acceptance tests are run regularly as part of the continuous integration full system build.
- iv) Automated regression suites are only run for the final release of code.
- v) In agile projects, the results from automated acceptance tests provide feedback on the overall product quality.

SELECT ONE OPTION

Options:

A- ii, iii

B- ii. v

C- i, iii

D- iii, iv

Answer:

A

Explanation:

In Agile projects, test automation plays a crucial role in maintaining high quality and accommodating the rapid pace of iterative development. Statement ii highlights the difficulty of ensuring high quality without test automation, given Agile's frequent changes and fast iterations. Test automation facilitates continuous testing, allowing teams to quickly identify and address issues. Statement iii, regarding automated acceptance tests being part of continuous integration, underscores the Agile practice of integrating and testing changes regularly to ensure that the product evolves correctly with each iteration. This practice aligns with the principles of Agile methodologies that advocate for sustainable development, continuous attention to technical excellence, and good design to enhance agility.

Question 4

Question Type: MultipleChoice

Which of the following would provide the MOST independence for testers working with agile teams?

SELECT ONE OPTION

Options:

- A-** Testers from an independent test team who do not get involved with the Agile team, but are assigned to do System Testing once all sprints are completed.
- B-** Testers are fully embedded in each Agile team to perform many of the testing tasks.
- C-** Testers from an independent test team are assigned on-demand for the final days of each sprint.
- D-** Testers from an independent test team are assigned to the Agile team at the beginning of the project, returning for re assignment to a new agile team.

Answer:

B

Explanation:

In Agile project environments, embedding testers within the Agile teams promotes close collaboration, immediate feedback, and continuous improvement, essential principles of Agile methodologies. This integration enables testers to be involved in all stages of the development process, from planning and design to execution and review, facilitating early detection of defects, understanding of user requirements, and adherence to quality standards. The Agile Manifesto emphasizes individuals and interactions over processes and

tools, advocating for collaborative team environments where business people and developers work together daily throughout the project. This approach contrasts with traditional methods where testing is often conducted in isolation or after development phases, potentially leading to delays and reduced quality due to the late discovery of issues.

Question 5

Question Type: MultipleChoice

Which of the following statements about Agile retrospectives is CORRECT?

SELECT ONE OPTION

Options:

- A-** During Agile retrospectives, testers should be encouraged to provide constructive suggestions only on non-testing activities.
- B-** In an Agile retrospective the moderator can encourage and make sure that good practices are kept by the team, by asking what the team is doing well.
- C-** Agile retrospectives should be focused mainly on impediments that are outside the control of the team because these issues are more challenging.
- D-** Unlike working sessions or meetings held in non Agile projects, Agile retrospectives do not require follow-up activities.

Answer:

B

Question 6

Question Type: MultipleChoice

Consider an online application that allows registered users to pay the annual car tax based on the vehicle's engine power in kW. Given the following user story:

"As a customer I need the online application to calculate the annual car tax amount that I need to pay for my car":

- If the power of the vehicle is less than 20 kW, then the annual car tax is free
- If the power of the vehicle is more or equal than 20 kW but less or equal than 150 kW, then the annual car tax is 250 Euros
- If the power of the vehicle is more than 150 kW, then the annual car tax is 750 Euros"

What is the MOST suitable use of a black-box test design technique for this user story?

SELECT ONE OPTION

Options:

A- State transition testing. Test the transitions between the following states: logging In. inserting the power of the vehicle, making payment, logging out

B- Use case testing.

Test the following use case (Actor=registered user):

Pre-condition=registered user logged in

Scenario=registered user inserts the power of the vehicle, making payment and logs out

Post-condition=car tax paid and registered user logged out

C- Decision table testing. Test the following conditions:

Conditions=registered user logged In; inserted power of the vehicle=20kW;

Action=Car tax paid

D- Equivalence partitioning. Test the annual car tax value for the following partitions: [power of the vehicle<20 kW; 20 kW ?power of the vehicle?! 50 kW; power of the vehicle>150 kW]

Answer:

C

Question 7

Question Type: MultipleChoice

A calculator application is being developed. The third sprint has been planned to add functionality to the calculator to allow scientific calculations. Which TWO examples below represent activities that would likely be managed on an agile task board for the third sprint?

- I) A task to design the features planned for the next sprint.
- ii) A task to run an acceptance test for a user story.
- iii) A task to automate regression tests.
- iv) A task to participate in training in preparation for the fourth sprint.
- v) A task to produce a daily progress report for the agile team members.

SELECT ONE OPTION

Options:

A- iv, v

B- i. iv

C- i. v

D- ii, iii

Answer:

D

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