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Question: 1

What is the purpose of TDD (Test Driven Development)?

- A. To write tests for software after it has already been developed
- B. To ensure software developers have something to do
- C. To write software that is easy to refactor and maintain
- D. To write tests for software before it has been developed

Answer: D

Explanation:

Option 1: This answer is incorrect because TDD involves writing tests before the software is developed.
Option 2: This answer is incorrect because TDD is not about giving developers something to do, but rather about ensuring the software meets the requirements.
Option 3: This answer is incorrect because while TDD can help make software easier to refactor and maintain, it is not the main purpose of TDD.
Option 4: This answer is correct because TDD involves writing tests before the software is developed, which ensures the software meets the requirements and is of high quality.

Question: 2

What is the purpose of Agile retrospective meeting in a Scrum project?

- A. To review the user stories.
- B. To identify obstacles and define action items to overcome them
- C. To discuss the priority of backlog items for the next sprint.
- D. To demo the completed work to stakeholders

Answer: B

Explanation:

Option 1: This option is incorrect. Reviewing user stories is part of the sprint planning meeting.
Option 2: This option is correct. The purpose of the retrospective meeting is for the team to reflect on the recent sprint and identify obstacles that need to be addressed in order to improve the process. The team collaboratively generates a set of actionable improvements that they can implement in the next sprint.
Option 3: This option is incorrect. Prioritization of backlog items is done in the sprint planning meeting.
Option 4: This option is incorrect. Demos are done at the end of each sprint to demonstrate the work done.

Question: 3

A member of a Development Team has identified a security vulnerability on the product being developed.

What should the team do next?

- A. Address the vulnerability immediately and notify the Scrum Master.
- B. Document the vulnerability and continue with development, addressing the issue at a later stage.
- C. Conduct a security audit and review all code developed so far
- D. Request the Product Owner to delay the release until the vulnerability is addressed

Answer: A

Explanation:

Option 1: The correct answer is As soon as a security vulnerability is identified, it should be addressed immediately to ensure that customer data is protected. Once the vulnerability has been addressed, the team should notify the Scrum Master. The Scrum Master may need to inform other stakeholders such as the Product Owner and executives. Option 2: Incorrect. Documenting the security vulnerability and continuing with development may result in the vulnerability being overlooked, putting the customer data at risk. Addressing the issue at a later stage may also add extra development and testing time, leading to delays in the project. Option 3: Incorrect. Conducting a security audit and reviewing all code developed so far is too time-consuming and may not be necessary. The team should address only the identified security vulnerability and not review all code. Option 4: Incorrect. Requesting the Product Owner to delay the release until the vulnerability is addressed may result in delays in the project. The team should address the vulnerability immediately without waiting for permission from the Product Owner unless the Product Owner is needed to provide resources or guidance on how to address the vulnerability

Question: 4

Which of the following statements best align with the Agile Manifesto?

- A. Individuals and interactions over processes and tools.
- B. Working software over comprehensive documentation.
- C. Customer collaboration over contract negotiation.
- D. All of the above.

Answer: D

Explanation:

Option 1: This option is the first value of the Agile Manifesto which acknowledges the importance of prioritizing people rather than tools. Option 2: This option demonstrates the emphasis on maintaining working software rather than a comprehensive description of the software development process. Option 3: This option symbolizes the importance of collaboration with the customer throughout the software development process to ensure the final product fulfills their needs. Option 4: This option is the correct answer as all three options prominently feature in the Agile Manifesto.

Question: 5

Which value in the Agile Manifesto emphasizes working software over comprehensive documentation?

- A. Individuals and interactions over processes and tools
- B. Working software over comprehensive documentation
- C. Customer collaboration over contract negotiation
- D. Responding to change over following a plan

Answer: B

Explanation:

Option 1: This value emphasizes the importance of prioritizing individuals and their ability to collaborate together over putting too much emphasis on processes and tools. Option 2: Correct! This value emphasizes the importance of prioritizing the delivery of working software over comprehensive documentation. While documentation is still important, it should not hinder the delivery of value to customers. Option 3: This value emphasizes the importance of customer collaboration and communication over rigid contract negotiation. Option 4: This value emphasizes the importance of being able to adapt and respond to change in the project, rather than strictly following a predefined plan

Question: 6

Which of the following statements best reflects the Agile principle of 'Working software over comprehensive documentation'?

- A. Every project must have comprehensive documentation
- B. Documentation must be created only when necessary
- C. Documentation should be prioritized over working software
- D. Working software is not necessary as long as comprehensive documentation is available

Answer: B

Explanation:

Option 1: This option is incorrect as Agile values working software over comprehensive documentation. While documentation may still be necessary, it should not be the primary focus. Option 2: This option is correct. This statement upholds the Agile principle that working software is more important than comprehensive documentation. It emphasizes that documentation should be created only when necessary. Option 3: This option is incorrect. This statement contradicts the Agile principle of valuing working software over comprehensive documentation. The priority should be creating a working product rather than just documenting every detail of the process. Option 4: This option is incorrect. The Agile principle values working software as the primary measure of progress, and comprehensive documentation as a secondary measure. This means that comprehensive documentation cannot replace working software

Question: 7

Which of the following describes a key role of the Scrum Master in the framework?

- A. Ensuring the team meets their sprint goal by assigning tasks to team members.
- B. Facilitating the daily Scrum to ensure the team is on track and addressing any impediments.
- C. Participating in the sprint review to provide feedback on team performance.
- D. Writing user stories and managing the product backlog.

Answer: B

Explanation:

Option 1: Incorrect. The Scrum Master is not responsible for assigning tasks to team members. Rather, the team collectively decides how to best meet their sprint goal. Option 2: Correct. The Scrum Master facilitates the daily Scrum to ensure the team is on track and addressing any impediments. This is a key role in ensuring the team is following the Scrum framework. Option 3: Incorrect. While the Scrum Master may participate in the sprint review, their role is not to provide feedback on team performance. Option 4: Incorrect. The Product Owner is responsible for writing user stories and managing the product backlog. The Scrum Master is not responsible for this role

Question: 8

What is the recommended size of a Scrum Development Team?

- A. Any number of individuals who can work effectively together
- B. Less than 10 individuals
- C. At least 10 individuals to ensure a diverse skillset
- D. More than 15 individuals to ensure high productivity

Answer: B

Explanation:

Option 1: This option is incorrect because while Scrum does not dictate a strict team size, it is recommended to keep the team small enough to be agile and work closely together. Option 2: This option is correct because Scrum recommends the development team to be no more than 10 people to remain effective and efficient. Option 3: This option is incorrect because while a diverse skillset is important, Scrum emphasizes that each member of the team should be cross-functional and capable of contributing in multiple areas. Option 4: This option is incorrect because a team size larger than 10 can lead to communication and collaboration challenges, as well as decreased efficiency.

Question: 9

During Sprint Planning, which of the following is a best practice for the Development Team to consider when planning the Sprint Backlog?

- A. The Development Team should only select items from the Product Backlog that the PO has already prioritized.
- B. The Development Team should always fill the Sprint Backlog to the maximum capacity to ensure they deliver the most value possible.

- C. The Development Team should include all items from the Product Backlog in the Sprint Backlog
- D. The Development Team should estimate the effort required to complete each item in the Sprint Backlog

Answer: D

Explanation:

Option 1: This is incorrect because the Development Team is responsible for selecting the items from the Product Backlog that they can realistically complete during the Sprint. The PO prioritizes the Product Backlog to guide the Development Team in their selection process. Option 2: This is incorrect because the Development Team should not over-commit to the amount of work they can realistically complete during the Sprint. Over-committing can result in the team not being able to deliver the agreed-upon Sprint Goal. The Development Team should aim to complete as much of the Sprint Backlog as possible, but not at the expense of quality or the Sprint Goal. Option 3: This is incorrect because not all items in the Product Backlog are relevant to the current Sprint Goal. The Development Team should only select the items that are necessary to achieve the Sprint Goal. Option 4: This is correct because the Development Team should estimate the effort required to complete each item in the Sprint Backlog to ensure they can realistically complete all items within the timebox of the Sprint. These estimates can also help the Development Team to identify potential roadblocks and adjust their Sprint plan accordingly

Question: 10

In BDD, what is the purpose of the 'Given' clause?

- A. To describe the expected outcome of the scenario
- B. To describe the actual outcome of the scenario
- C. To describe the initial context or state of the scenario
- D. To describe the actions performed during the scenario

Answer: C

Explanation:

Option 1: This option is incorrect because the purpose of the 'Given' clause is to describe the initial context or state of the scenario, not the expected outcome. Option 2: This option is incorrect because the purpose of the 'Given' clause is not to describe the actual outcome of the scenario, but rather the initial state. Option 3: This option is correct because the 'Given' clause is used to describe the initial context or state of the scenario. It sets up the preconditions for the scenario which makes it possible to test a specific behavior. Option 4: This option is incorrect because the purpose of the 'Given' clause is not to describe the actions performed during the scenario, but rather the initial state or context

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