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Exam : **PSD**

Title : Professional Scrum Developer

Vendor : Scrum

Version : DEMO

NO.1 What is the definition of done good for? Choose all that apply.

- A. This way documentation is obligated and cannot be skipped
- B. It creates a shared understanding of what done means
- C. Management knows what the work of the developer needs to be checked for
- D. It helps the developers know how much work to select during the sprint planning

Answer: B D

Explanation:

The DoD helps the developers know how much work needs to be done, and therefore they can decide what should be part of the sprint. It also creates a shared understanding of what done means. This is likely to include documentation, but that depends on the decisions of the organization and team. Scrum does not dictate this.

NO.2 What is an inappropriate activity for a developer with special QA skills?

- A. Create a plan for testing the application
- B. Identify tools and techniques to be used in testing the product
- C. Define acceptance criteria for features
- D. Delay test activities until a feature has been coded

Answer: D

Explanation:

Test activities can start directly with the sprint.

NO.3 What topics can be addressed during the sprint review? Choose the best answer.

- A. The scrum process
- B. All of these
- C. The increment
- D. Coding and engineering practices

Answer: B

Explanation:

These are all potential topics for the sprint review. If you are not sure, please read the sprint review section in the scrum guide again.

NO.4 How much time will there be after a sprint before the next one starts?

- A. Enough to deploy the increment and update the product backlog based on the outcome of the sprint review
- B. Enough to clean up lingering definition of done points
- C. None, a new sprint starts immediately after the end of the previous one
- D. At most a week for a one-month sprint

Answer: C

Explanation:

The scrum guide says: "A new Sprint starts immediately after the conclusion of the previous Sprint."

NO.5 What is static analysis?

- A. Analysis performed on software at runtime
- B. A tool that inspects the correctness of static keyword usage

- C. Work performed by the business analyst
- D. Analysis performed on code

Answer: D

Explanation:

Static analysis is performed on code (and not a running program or build).

NO.6 Which are two benefits of establishing naming conventions for code?

- A. To make the code more readable
- B. To make it easy to distinguish between different software products
- C. To communicate the identity of the developer that wrote the code
- D. To reduce friction in a shared codebase
- E. To ensure that orphan functions are not created

Answer: A C

Explanation:

Naming conventions help to make the code more readable and it can reduce naming clashes.

NO.7 What is test first development?

- A. The continuous restructuring of software to retain flexibility
- B. Having the tester in the development team write the test plans before coding
- C. Creating tests before satisfying them
- D. Testing existing code before adding more code to it

Answer: B

Explanation:

Test first development is a different way of saying TDD.

NO.8 When is a system's architecture decided? (choose the best answer)

- A. It is designed along with the vision, before the first Sprint.
- B. In the beginning of the project, during Sprint 0.
- C. Before writing code.
- D. Throughout development, as understanding emerges.

Answer: D

Explanation:

Detailed Explanation: In Scrum, system architecture evolves iteratively. Decisions are made throughout development as more is learned about the requirements and product, aligning with Agile principles.

NO.9 You are asked to refactor part of the codebase for an application. When you are done, all unit tests pass with

50% code coverage. What can you infer from this?

- A. Less than 50% of the application is working correctly
- B. There are no bugs in the application
- C. At least 50% of the application is working correctly
- D. You did not break any of the unit tests that already existed

Answer: D

Explanation:

You can't really say anything because you don't know what the unit tests are testing and whether they are correctly representing whether the application is working correctly. However, if all the tests passes you didn't break any already existing tests. Also, if none tests existed yet, you did not break them.

NO.10 How do you know that the developers are cross-functional?

- A. Every member can do every task
- B. They work with TDD
- C. They never argue
- D. They do pair programming
- E. Developers have the combined skills to create a usable increment

Answer: E

Explanation:

Cross-functional is on team level and not on individual level.

NO.11 The practice of decomposing a requirement into failing tests is called:

- A. Behavior driven development
- B. Scrum testing
- C. Regression testing
- D. Acceptance test driven development

Answer: D

Explanation:

In ATDD you start with writing tests to represent the requirement. Since you start with this, there is no production code to satisfy the test which is why the tests will fail.

NO.12 Cyclomatic complexity is a metric for:

- A. Measuring branching structures and nesting levels in code
- B. Assessing if code is written in as few lines as possible
- C. Determining the number of unit tests required to ensure correctness
- D. Demonstrating code is well structured and cleanly implemented

Answer: A

Explanation:

Cyclomatic complexity is a number expressing the number of different paths that can be taken throughout the code. Higher means complex code.

NO.13 What is not a desirable characteristics of a unit test?

Test code is as small as possible

- A. Execution is fast
- B. Independent of others
- C. Includes exercising the persistence layer
- D. Makes assertions about only one logical concept

Answer: C

Explanation:

you don't want your unit test to really make changes so it cannot exercise the real persistence layer.

NO.14 Which statement best describes the sprint review?

- A.** It is a chance for inspecting the outcome of a sprint and determining the next steps
- B.** It is a mechanism to control the work of the developers
- C.** It is a demo of the work that was done

Answer: A C

Explanation:

The scrum guide says: "The purpose of the Sprint Review is to inspect the outcome of the Sprint and determine future adaptations. "

NO.15 When is performance testing most effectively performed?

- A.** In production during peak hours
- B.** Often during the development
- C.** In production
- D.** Just before deployment to production

Answer: B

Explanation:

It's best to do it often during development so that problems can be detected early. Performance testing on production will disturb the production environment.

NO.16 Which concept is described by the Last Responsible Moment? (choose the best answer)

- A.** Discover decisions to be made as soon as possible but postpone making those decisions until the latest reasonable moment.
- B.** Making decisions as soon as possible to close feedback loops as soon as possible.
- C.** The last moment in a Sprint when code changes are allowed; after this, only stabilization work should be conducted.
- D.** The last moment a Developer is responsible for quality; after this, the Tester is responsible.

Answer: A

Explanation:

Detailed Explanation: The Last Responsible Moment is an Agile concept encouraging teams to defer decisions until sufficient information is available, reducing risk and increasing flexibility.