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Shared by *Paul* on *12-12-2023*

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Question 1

Question Type: MultipleChoice

After a selection process you have selected a test management tool that is going to be introduced in your organization and used by your test team in a pilot project.

You have already identified the member of your test team who will be the administrator of the tool, since he/she has a significant experience with the administration of test management tools and so he/she is able to make effective and efficient up-front decisions about "how" the tool will be used.

You have also developed a training plan for the other members of your test team.

In collaboration with the administrator of the tool you have also devised standard ways of managing, storing and maintaining the tool and its assets including backup/restore procedures.

You have also analyzed standard formats supported by the tool (CSV, XLS, XML, etc.) to export, import and archive all the information managed by the tool itself (requirements, test case specifications, test plans etc.) for compliance with the most important test management tools, in order to minimize the impacts of migrating this information to a new tool that could replace the existing one in the future.

Which of the following phases in the lifecycle of the new tool has NOT been adequately considered in this description?

K2 1 credit

Options:

- A- Acquisition
- B- Support and maintenance
- C- Evolution
- D- Retirement

Answer:

C

Question 2

Question Type: MultipleChoice

Assume you are the Test Manager in charge of independent testing for avionics applications. You are in charge of testing for a project to implement three different CSCI (Computer Software Configuration Item):

- a BOOT-X CSCI that must be certified at level B of the DO-178B standard
- a DIAG-X CSCI that must be certified at level C of the DO-178B standard
- a DRIV-X CSCI that must be certified at level A of the DO-178B standard

These are three different software modules written in C language to run on a specific hardware platform.

You have been asked to select a single code coverage tool to perform the mandatory code coverage measurements, in order to meet the structural coverage criteria prescribed by the DO-178B standard. This tool must be qualified as a verification tool under DO-178B.

Since there are significant budget constraints to purchase this tool, you are evaluating an opensource tool that is able to provide different types of code coverage. This tool meets perfectly your technical needs in terms of the programming language and the specific hardware platform (it supports also the specific C-compiler).

The source code of the tool is available.

Your team could easily customize the tool to meet the project needs. This tool is not qualified as a verification tool under the DO-178B.

Which of the following are the three main concerns related to that open-source tool selection?

K4 3 credits (2 credits out of 3 credits correct, 1 credit point)

Options:

- A-** Does the tool support all the types of code coverage required from the three levels A, B, C of the DO-178B standard?
- B-** Does the tool have a good general usability?
- C-** What are the costs to qualify the tool as a verification tool under the DO-178B?
- D-** Is the installation procedure of the tool easy?
- E-** Does the tool require a system with more than 4GB of RAM memory?

F- Is the licensing scheme of the tool compatible with the confidentiality needs of the avionics company?

Answer:

A, C, F

Question 3

Question Type: MultipleChoice

Assume you are managing a test automation project for a mission-critical system. Because vendor provided tools and open source solutions don't meet the needs of this project, you ask your test team to develop a custom automation framework. Which of the following management issues associated to the development of this custom automation framework is least likely to manage?

K2 1 credit

Options:

- A-** Proper testing for the custom automation framework must be performed
- B-** The custom automation framework will require an adequate documentation
- C-** The changes to the custom automation framework should be communicated to all external users of this tool under the GNU license

D- The custom automation framework will need proper maintenance

Answer:

C

Question 4

Question Type: MultipleChoice

In your organization the following tools of the same vendor are currently in use. a requirements management tool, a test management tool and a bug tracking tool.

You are the Test Manager.

You are currently evaluating a test automation tool of the same vendor (to complete the vendor's tool suite) against an interesting open-source test automation tool under the GNU GPL (General Public License).

There are no initial costs associated to that open-source tool.

Which of the following statements associated to the selection of the open-source tool is correct in this scenario?

K2 1 credit

Options:

- A-** The open-source tool can be modified but only if the community of developers of that tool gives you the formal permission to modify it
- B-** There are no initial costs for the open-source tool but you should carefully consider the costs associated to the integration with the existing tools and also evaluate the recurring costs
- C-** There are no initial costs for the open-source tool because open-source tools are usually lowquality, while vendor tools have always a better quality than the corresponding open-source tools
- D-** The open-source tool can be modified but it can't be distributed further in any way

Answer:

B

Question 5

Question Type: MultipleChoice

Which of the following statements about the TMMi test process improvement model is true? K2 1 credit

Options:

- A-** In TMMi all the process areas at lower levels must be 75% complete by achieving specific and generic goals in order to claim the

higher level

B- TMMi provides an approach for test process improvement such as the IDEAL (Initiating, Diagnosing, Establishing, Acting and Learning) model

C- TMMi has a staged architecture for process improvement with seven maturity levels

D- At TMMi level 1 testing is chaotic without a defined process, and it is often seen as the same as debugging

Answer:

D

Question 6

Question Type: MultipleChoice

Consider the following statements describing the importance of improving the test process:

Test process improvement is important because being focused only on the test process it can provide recommendations to improve the test process itself, but it can't indicate or suggest improvement to areas of the development process

Test process improvement is important because it is much more effective than software process improvement to improve the quality of a software system

Test process improvement is important because several process improvement models (STEP, TPI Next, TMMi) have been developed over the years

Test process improvement is important because every organization, regardless of the context, should always achieve the maximum level of maturity of testing described in the test improvement models such as TMMi

Which of the following answers is correct?

K2 1 credit

Options:

A- I. and IV. are true; II. and III. are false

B- I., II., III. and IV are false

C- I., II. and III are true; IV. is false

D- I., II. and III. are false; IV. is true

Answer:

B

Question 7

Question Type: MultipleChoice

Consider a defect report and assume that a part of its lifecycle includes the following states: New:

Is the initial state Working. Means that the developers are addressing the defect in order to produce a fix for the defect Clarification:

Means that the developers need more information from the tester to address the defect and produce a fix for the defect and the tester is working to provide this information to the developers Verification:

Means that a fix for the defect has been produced and the tester is running the adequate tests to verify whether the fix solves the defect

Closed. is the final state Which of the following answers represents an invalid sequence of states that can't lead the bug report to the "Closed" state?

K2 1 credit

Options:

A- New, Working, Verification, Working, Clarification, Working, Verification, Closed

B- New, Working, Clarification, Working, Verification, Closed

C- New, Working, Verification, Working, Clarification, Working, Closed

D- New, Working, Verification, Closed

Answer:

C

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