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Question 1

Question Type: MultipleChoice

You are not confident with the assessment of the risk level and you suspect that it will be possible to find high-priority bugs in low-risk areas.

Furthermore the period for test execution is very short. Your goal is to test all the product risks in a risk-based way, while assuring that each product risk gets at least some amount of testing.

Product risk	Risk level	Test Cases
R1	25	T1, T2
R2	12	T3, T4
R3	10	T5, T6
R4	8	T7, T8
R5	2	T9, T10

Which of the following answers describes the best test execution schedule in this scenario?

Number of correct responses: 1

Options:

A- T1, T2, T3, T4, T5, T6, T7, T8, T9, T10
B- T1, T3, T5, T7, T9, T2, T4, T6, T8, T10
C- T10, T9, T8, T7, T6, T5, T4, T3, T2, T1
D- T10, T8, T6, T4, T2, T9, T7, T5, T3, T1

Answer:

B

Question 2

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?

Number of correct responses: 1

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 low-quality, 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 3

Question Type: MultipleChoice

Which one of the following metrics to be produced needs traceability between the test cases and each item in a proper test basis?

Number of correct responses: 1

Options:

A- Requirements coverage
B- Trends in the lag time from defect reporting to resolution
C- Mean time between failures for the system
D- Cumulative number of reported defects versus cumulative number of resolved defects

Answer:

A

Question 4

Question Type: MultipleChoice

In the test strategy document your organization declares:

- to adopt a V-model development lifecycle, with three formal levels of testing: unit, integration and system testing

- to use a blended risk-based and regression-averse testing strategy for each level of testing

The following is an excerpt of the ''approach'' section for the system test plan document of a new project:

''Testing will only use manual tests. Due to the short period of time for test execution, the following activities will be performed in parallel with test execution: Test planning, test analysis and test design.

Basic metrics will be taken for test effort (i.e. person-hours), test cases executed (passed/failed), and incidents (no more metrics, such as code coverage, will be collected).''

In the system test plan, no deviations from the test strategy are described.

Based only on the given information, which of the following statements is true?

Number of correct responses: 1

Options:

A- The approach described in the system test plan document is consistent with the test strategy
B- The approach described in the system test plan document is consistent with the risk-based testing strategy, but it is inconsistent with the regression testing strategy
C- The approach described in the system test plan document is consistent with the regression testing strategy, but it is inconsistent with the risk-based testing strategy
D- The approach described the system test plan document is inconsistent with both the risk-based and regression testing strategies

Answer:

D

Question 5

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 open-source 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?

Number of correct responses: 3

(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 6

Question Type: MultipleChoice

Consider the following analysis of testing skills performed on four people: Alex, Robert, John and Mark (all the skills have been rated on an ascending scale: The higher the score, the better the skill):

Testing Skills	Alex	Roberta	John	Mark
Planning				
Estimation and Cost of Quality	3	2	2	5
Documentation	3	3	2	5
Quality Risk Analysis/ Management	2	3	2	5
Design/Development				
Behavioral (Black-Box)	3	5	2	2
Structural (White-Box)	3	5	3	1
Static (Reviews and Analysis)	3	4	3	2
Test Automation				
COTS Execution Tools	5	2	4	3
COTS Test Management	5	2	4	3
Test Data Generators	5	2	4	3
Execution				
Manual (Scripted and Dynamic)	3	3	4	3
Automated	3	3	4	3
Test Status Reporting and Metrics	2	4	4	3
Average Testing Skills	3,36	3,17	3,17	3,15

Which of these people, based on this analysis, would you expect to be most suitable to work specifically as test designer?

Number of correct responses: 1

Options:

A- Alex
B- Roberta
C- John
D- Mark

Answer:

B

Question 7

Question Type: MultipleChoice

After a selection process you have selected a test management tool that is going 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?

Number of correct responses: 1

Options:

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

Answer:

C

Question 8

Question Type: MultipleChoice

The following are the requirements identified as ''critical'':

REQ-SEL-001. The user shall be able to combine all the three products with all the four durations to define an item to purchase

REQ-SEL-002. The user shall be able to add a maximum of six different items to the shopping cart

REQ-PUR-001. The user shall be able to purchase all the items in the shopping cart using a credit voucher

REQ-PUR-002. The user shall be able to purchase all the items in the shopping cart using the available credit already charged on the smartcard

REQ-PUR-003. The user shall be able to purchase all the items in the shopping cart using all the accepted credit cards (Visa, MasterCard and Great Wall Card)

REG-LOGO-001. The user shall be able to logout (by clicking the logout button) from both the ''select'' and ''purchase'' pages going back to the ''browse'' page (anonymous navigation)

Moreover the following quality risk item has been identified as ''critical'':

QR-P1. The web customer portal might not be able to provide the expected response time (less than 10 sec) for the purchase transactions under a load of up-to 1000 concurrent users

Test analysis for system testing has just begun and the following test conditions have been identified:

TC-SEL-01. Test the combinations of products and durations to define an item to purchase

TC-SEL-02. Test the maximum number of items, which can be added to the shopping cart

TC-PUR-01. Test the purchase of an item

TC-PUR-02. Test the purchase of an item with the credit charged on the smartcard

What is the MINIMUM number of test conditions that must be added to fulfill both the EXCR1 and EXCR2 exit criteria?

Number of correct responses: 1

Options:

A- 1
B- 2
C- 3
D- 4

Answer:

C

Question 9

Question Type: MultipleChoice

Assume you have some data related to confirmation testing during system testing of a past project.

In that project 240 bug reports have been opened once, 80 were opened twice, 10 were opened three times and no bug reports have been opened more than three times.

You estimate that a bug report, which has failed its confirmation test, costs, on average, 3 person-hours.

Which of the following statements correctly describe the value of these confirmatory testing activities based on cost of quality?

Number of correct responses: 1

Options:

A- 300 person-hours have been spent on the project during the system testing phase, because of the failed confirmation tests and this cost belongs to the costs of internal failure
B- 340 person-hours have been spent on the project during the system testing phase, because of the failed confirmation tests and this cost belongs to the costs of external failure
C- 340 person-hours have been spent on the project during the system testing phase, because of the failed confirmation tests and this cost belongs to the costs of internal failure
D- 300 person-hours have been spent on the project during the system testing phase, because of the failed confirmation tests and this cost belongs to the costs of detection

Answer:

A

Question 10

Question Type: MultipleChoice

Assume you are a Test Manager involved in system testing of a CRM application for a Pay-TV company. Currently the application is able to support a proper number of users assuring the

required responsiveness. Since the business is expected to grow, you have been asked to evaluate the ability of the application to grow to support more users while maintaining the same responsiveness.

Which of the following tools would you expect to be the most useful at performing this evaluation?

Number of correct responses: 1

Options:

A- Coverage tools
B- Test management tools
C- Static analysis tools
D- Performance tools

Answer:

D

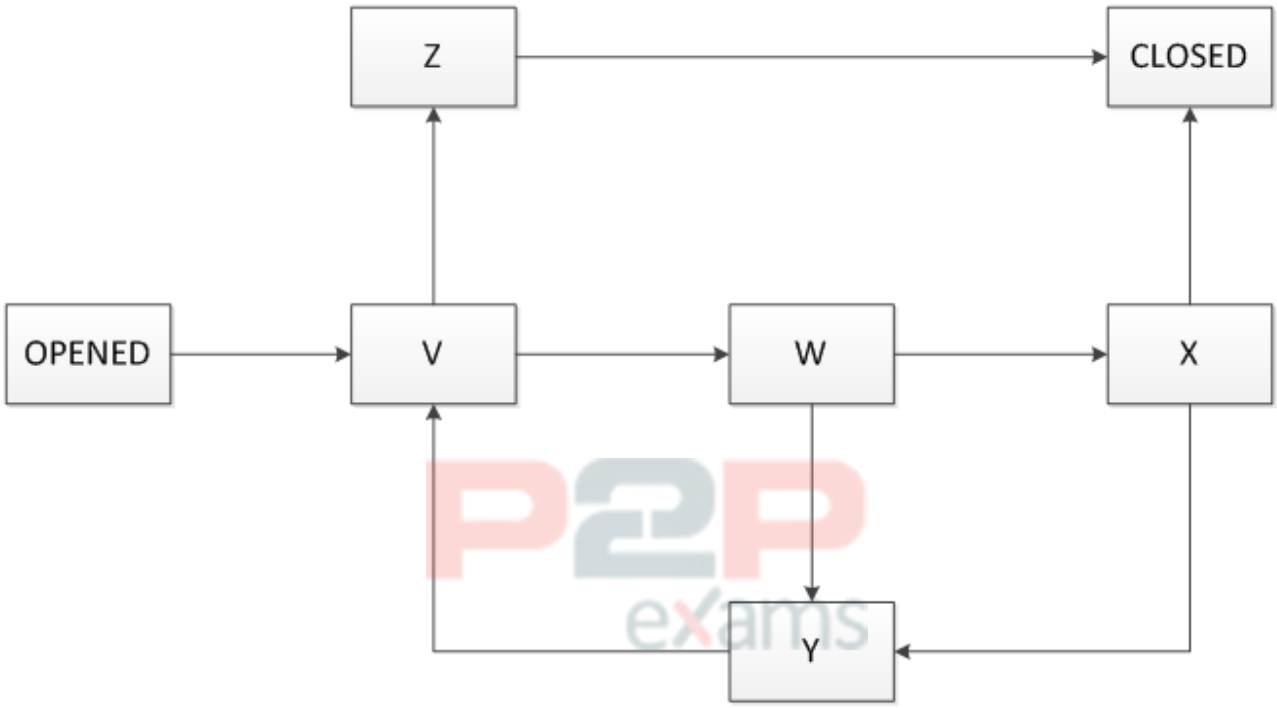
Question 11

Question Type: MultipleChoice

Assume you are working on a defect management process to be used by a software organization to track the current status of the defects reports for several projects.

When a defect is found for investigation a defect report is created in ''Opened'' state that is the unique initial state. The defect report status has also a unique finale state that is the ''Closed'' state.

The following state transition diagram describes the states of this defect management process:



where only the initial (''Opened'') and final (''Closed'') states are indicated while the remaining states (V, W, X, Y, Z) have yet to be named.

Which of the following assignments would you expect to best complete the defect management process?

Number of correct responses: 1

Options:

A- V=Rejected , W=Corrected , X=Validated, Y=Re-Opened, Z=Assigned
B- V=Assigned, W=Validated , X=Corrected, Y=Re-Opened, Z=Rejected
C- V=Assigned, W=Corrected , X=Validated, Y=Re-Opened, Z=Rejected
D- V= Corrected, W=Assigned, X=Validated, Y=Corrected, Z=Rejected

Answer:

C

Question 12

Question Type: MultipleChoice

During the system testing phase a tester from your test team observes a failure in the system under test and he/she decides to create an incident report. The incident report is currently in a

''new'' state, indicating it needs to be investigated.

Which THREE of the following information items can't yet be present in the incident report?

Number of correct responses: 3

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

Options:

A- The type of defect that caused the failure
B- The actual and the expected result highlighting the failure
C- The lifecycle phase in which the defect has been introduced
D- What really caused the failure (actual cause)
E- Steps to reproduce the failure, including screenshots, database dumps and logs where applicable

Answer:

A, C, D