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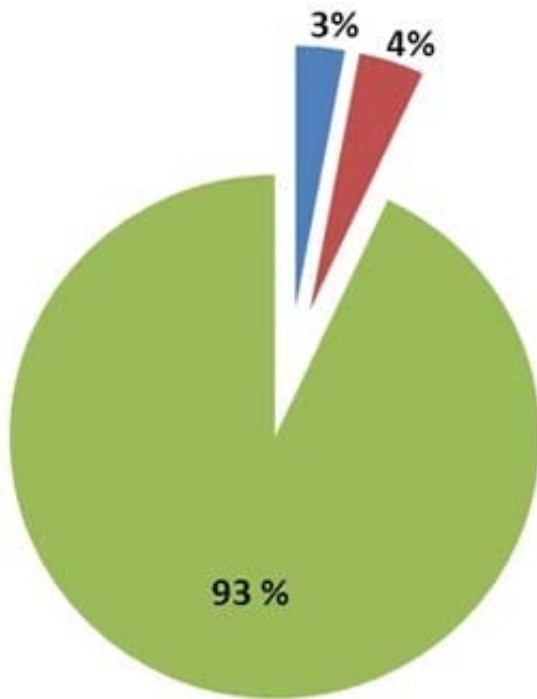
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QUESTION 1

After the presentation, you are asked to explain the chart. Assume you have applied a full risk-based testing strategy.



Which of the following answers would you expect to best describe the pie chart?

K4 3 credits

- A. All the risk items have been covered with tests. No more risk items remain to test
- B. According to the full risk-based testing strategy applied, it is very likely that the highest- risk items, tests and bugs remain in the blue and red areas. Therefore, it is very risky to release the application
- C. Only the lowest-risk items, tests and bugs should remain in the blue and red areas. Therefore the application can be released at any time subject to management of the items identified in those areas
- D. 97 percent of the risk items has been tested. No open bugs or test failures remain. Only 3 percent of risk items remains to be covered by the remaining test

Correct Answer: C

QUESTION 2

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

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

Correct Answer: C

QUESTION 3

You are the Test Manager for a project to develop a web customer portal of a Pay-TV company that allows customers (with a smartcard and a set-top box) to purchase digital contents.

In the "select" page the system displays a dialogue where the customer can select the items (digital contents) he/she is interested in. In this page he/she can add one or more items to a shopping cart. An item consists of a product and a duration.

There are three types of products: Movie, sport and premium (movie and sport).

There are four possible durations: 1 months, 2 months, winter (from the beginning of January to end of March) and summer (from the beginning of July to end of September).

All the combinations of products and durations are allowed to define an item. Thus there are twelve possible items. A maximum of six different items can be added to the shopping cart at a time.

When the customer decides to check out he/she goes to the "purchase" page where he/she can pay the total amount of the shopping cart in three different ways:

-

using a credit voucher

-

using a credit already charged on the smartcard

-

using a credit card (accepted credit cards are. Visa, MasterCard and Great Wall Card)

The customer can logout from both the "select" and "purchase" pages. In this case no purchase is made.

You decide to apply a blended risk-based and reactive testing strategy and the following is a subset of the

exit criteria for system testing: EXCR1- Each "critical" quality risk item must be covered by at least one test condition
EXCR2- Each "critical" requirement must be covered by at least one test condition You are following a risk-based testing strategy. The test execution time is very limited. Assume that all the

product risk items require more or less the same level of test effort.

Product Risk Item	Likelihood	Impact
The system does not accept transactions coming from the IVR channel	1	5
The system does not correctly charge a Smart Card with the required contents	2	5
The system does not activate a pre-activated Smart Card	3	5
The system does not pre-activate a Smart Card	5	3

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

K3 3 credits

- A. 1- Test the acceptance of transactions coming from the IVR channel2- Test the correct charge of the Smart Card with the required contents3- Test the correct pre-activation of the Smart Card4- Test the correct activation of the Smart Card
- B. 1- Test the correct pre-activation of the Smart Card2- Test the correct charge of the Smart Card with the required contents3- Test the correct activation of the Smart Card4- Test the acceptance of transactions coming from the IVR channel
- C. 1- Test the correct activation of the Smart Card2- Test the correct pre-activation of the Smart Card3Test the correct charge of the Smart Card with the required contents4- Test the acceptance of transactions coming from the IVR channel
- D. 1- Test the correct pre-activation of the Smart Card 2- Test the correct activation of the Smart Card3Test the correct charge of the Smart Card with the required contents4- Test the acceptance of transactions coming from the IVR channel

Correct Answer: D

QUESTION 4

Which of the following answers describes a factor that may reduce the effort spent when using distributed test teams without negatively affecting system quality?

K2 1 credit

- A. Difficulties in communication between the distributed test teams due to time zone differences
- B. With several distributed test teams, every team assumes that some test conditions are covered by other teams but actually no one covers them
- C. With several distributed test teams, two or more teams assume some test conditions are covered by their team and their team alone. But all of the teams actually cover them

D. With several distributed test teams, all of the distributed test teams use a single unified test dashboard

Correct Answer: D

QUESTION 5

You are the Test Manager of a new project that will have three formal levels of testing. unit, integration and system testing. The testing strategy you decide to adopt a blend of risk-based testing and reactive testing strategies.

Which of the following answers describes the most consistent example of implementation of this test strategy during the execution of the system tests?

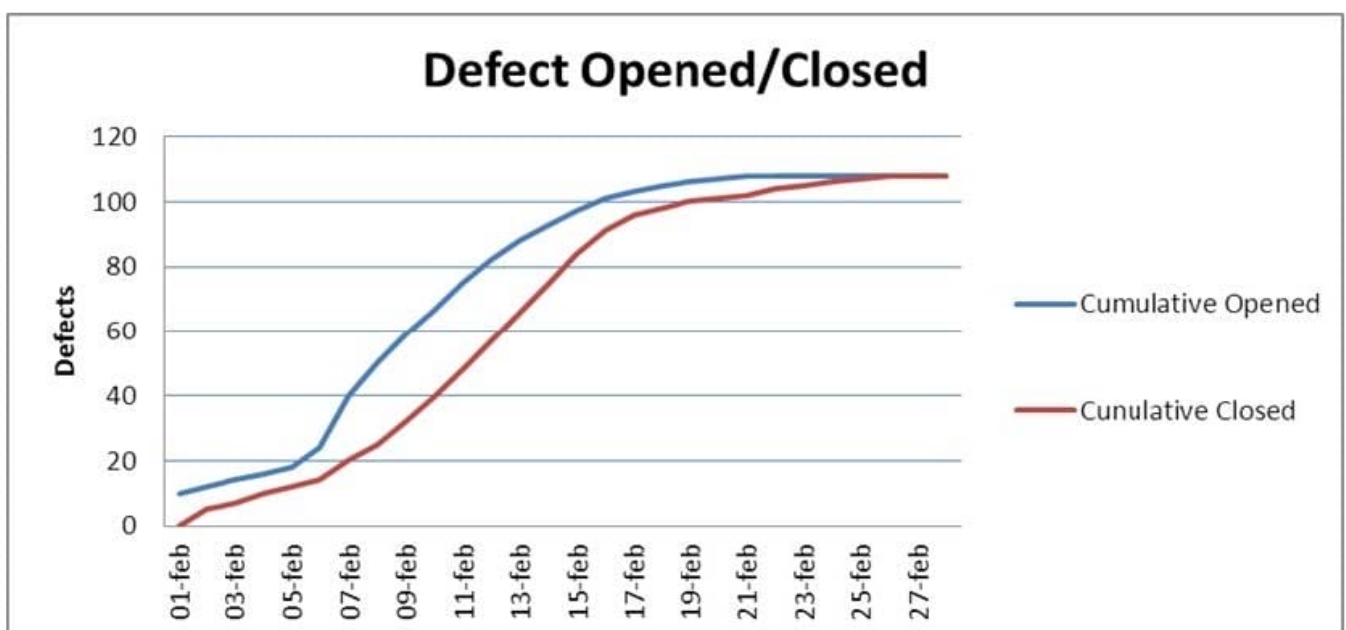
K2 1 credit

- A. Your test team executes exploratory tests following a session-based test management approach throughout the system test phase
- B. Your test team executes system tests under the guidance of a sample of users throughout the system test phase
- C. Your test team executes scripted tests designed and implemented before the execution of the system test phase, to cover the identified product risks. It also performs exploratory testing sessions throughout the system test phase
- D. Your test team autonomously performs some exploratory testing sessions and, at the very end of the system testing phase, it also executes more system tests under the guidance of a sample of users

Correct Answer: C

QUESTION 6

The following chart plots the cumulative number of defects opened against the cumulative number of defects closed during system testing of a software product.



Which of the following statements is true? K2 1 credit

- A. The chart indicates that you have plenty of problems left to find
- B. The chart can be used to reveal test progress problems
- C. The chart seems to indicate that the defect management process is not working well
- D. The chart seems to indicate that the defect management process is working well

Correct Answer: D

QUESTION 7

Which of the following statements describing how identified product quality risks should be mitigated and managed, is true?

K2 1 credit A. The extent of re-testing and regression testing activities should be based on the risk level

- B. The identification of new risks, the re-assessment of the level of existing risks and the evaluation of the effectiveness of risk mitigation activities should only occur at the very beginning of a project
- C. Risk mitigation of product quality risks can be effective only after starting test execution
- D. The priority of the development and execution of tests should not be based on the risk level but only on the likelihood

Correct Answer: A

QUESTION 8

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

- A. In the STEP model, tests validate the requirements and use cases when they are developed
- B. The STEP model stresses defect detection and demonstration of capability, whereas the defect prevention is a secondary potential goal of testing
- C. The STEP model assures that the system requirements specification and the test design specification processes don't overlap
- D. In the STEP model, testware design occurs after coding

Correct Answer: A

QUESTION 9

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

- 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

Correct Answer: B

QUESTION 10

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

- I. 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
- II. Test process improvement is important because it is much more effective than software process improvement to improve the quality of a software system
- III. Test process improvement is important because several process improvement models (STEP, TPI Next, TMMi) have been developed over the years
- IV. 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

- 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

Correct Answer: B

QUESTION 11

Which of the following statements, about the test reporting activities for a project adopting an iterative lifecycle model with very short iterations (e.g. two weeks iterations), is correct?

K2 1 credit

- A. Test reporting activities can't be influenced by the use of an iterative lifecycle model with short iterations
- B. Test reporting activities are not important for projects adopting an iterative lifecycle model with short iterations
- C. Test reporting activities are less important for projects adopting an iterative life cycle model with short iterations. They should be performed at the end of the last iteration
- D. Test reporting activities are still important with an iterative lifecycle. The reports can be used to conduct post-iteration review sessions before starting with the next iteration

Correct Answer: D

QUESTION 12

The following are the exit criteria described in the test plan of a software product:

EX1. The test suite for the product must ensure that at least each quality risk item is covered by at least one test case (a quality risk item can be covered by more test cases).

EX2. All test cases in the test suite must be run during the execution phase.

EX3. Defects are classified into two categories: "C" (critical defect) and "NC" (non-critical defect). No known C defects shall exist in the product at the end of the test execution phase.

Which of the following information is useless when the specified exit criteria is evaluated?

K2 1 credit

- A. A traceability matrix showing the relationships between the product risk items and the test cases
- B. A list of all the open defects with the associated classification information extracted from the defect tracking system
- C. A chart, showing the trend in the lag time from defect reporting to resolution, extracted from the defect tracking system
- D. The execution status of all the test cases extracted from the test management tool

Correct Answer: C

QUESTION 13

Assume you are the Test Manager for a new software release of an e-commerce application.

The server farm consists of six servers providing different capabilities. Each capability is provided through a set of web

services.

The requirements specification document contains several SLAs (Service Level Agreements) like the following:

SLA-001: 99.5 percent of all transactions shall have a response time less than five seconds under a load of up-to 5000 concurrent users

The main objective is to assure that all the SLAs specified in the requirements specification document will be met before system release. You decide to apply a risk-based testing strategy and an early risk analysis confirms that performance is high risk. You can count on a well-written requirements specification and on a model of the system behavior under various load levels produced by the system architect.

Which of the following test activities would you expect to be the less important ones to achieve the test objectives in this scenario?

K4 3 credits

- A. Perform unit performance testing for each single web service
- B. Monitor the SLAs after the system has been released into the production environment
- C. Perform system performance testing, consisting of several performance testing sessions, to verify if all the SLAs have been met
- D. Perform static performance testing by reviewing the architectural model of the system under various load levels

Correct Answer: B

QUESTION 14

You are performing a quality risk analysis for a CSCI (Computer Software Configuration Item) used to implement a CBIT (Continuous Built-In Test) module of a safety-critical system.

During the quality risk analysis you are trying to identify the ways in which failures of the CBIT module can occur, for each of them trying to determine the potential causes and likely effects, and the risk level (calculated as the product of three factors: severity, occurrence and detection).

Which of the following risk analysis techniques are you working with?

K2 1 credit

- A. A lightweight product risk analysis technique
- B. Failure Mode and Effect Analysis
- C. Wide Band Delphi
- D. Cost of Exposure

Correct Answer: B

QUESTION 15

Assume that the following test cases have been executed at the end of the first week of test execution: TC001, TC-002 and TC-007. All these tests are `passes\`.

		TEST CASES									
		TC-001	TC-002	TC-003	TC-004	TC-005	TC-006	TC-007	TC-008	TC-009	TC-010
REQUIREMENTS	REQ-001	X									
	REQ-002		X	X							
	REQ-003				X						
	REQ-004				X			X			
	REQ-005					X		X			
	REQ-006						X	X			
	REQ-007								X		
	REQ-008								X		
	REQ-009	X									
	REQ-010									X	
	REQ-011				X						
	REQ-012										X

What is the MINIMUM number of the remaining test cases that must be successfully executed to fulfill the EX1 exit criteria?

K3 2 credits

- A. 4
- B. 5
- C. 6
- D. 7

Correct Answer: A

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