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Question 1. (Multi Select)

You are the Test Manager of a project that adopts a V-model with four formal levels of testing. unit, integration, system and acceptance testing.

On this project reviews have been conducted for each development phase prior to testing, which is to say that reviews of requirements, functional specification, high-level design, low-level design and code have been performed prior to testing.

Assume that no requirements defects have been reported after the release of the product. Which TWO of the following metrics do you need in order to evaluate the requirements reviews in terms of phase containment effectiveness?

K3 2 credits

- A: Number of defects found during the requirements review
- B: Total number of defects attributable to requirements found during unit, integration, system and acceptance testing
- C: Total number of defects attributable to requirements, found during functional specification review, high-level design review, low-level design review, code review, unit testing, integration testing, system testing and acceptance testing
- D: Time to conduct the requirements review
- E: Total number of defects found during functional specification review, high-level design review, low-level design review, code review, unit testing, integration testing, system testing and acceptance testing

Correct Answer: A, E

Question 2. (Single Select)

Consider an information system of a Pay-Tv company based on a SOA architecture.

The integrated system currently consists of three core systems:

- a CRM (Customer Relationship Management) system
- a BRM (Billing and Revenue Management) system
- a CAS (Conditional Access System) system all of them communicating with SOA Middleware.

You have been asked to manage the testing activities for the integration of two additional off-the-shelf systems from two different vendors: a SMS (Short Message Service) server and an IVR (Interactive Voice Response) system.

Assume that there is a high likelihood that the two off-the-shelf systems will be low-quality and

that you have a clear proof that the testing performed by the two vendors on their systems has been unsystematic and unprofessional. This obviously leads to higher quality risk for the overall integrated system.

You are the Test Manager of this project. Your main goal is to plan for testing activities to mitigate this risk.

Which of the following answers best describes the test activities (assuming it is possible to perform all of them) you should plan for?

K4 3 credits

- A: You should plan for an informal and minimal acceptance test of the two off-the-shelf systems and then a single end-to-end test of the overall integrated system
- B: You should directly plan for a single end-to-end test focused on end-to-end tests of the overall integrated system without an acceptance test of the two off-the-shelf systems
- C: You should plan for two levels: a system integration test and an end-to-end test of the overall integrated system
- D: You should plan for adequate re-testing of both the systems followed by a system integration test and an end-to-end test of the overall integrated system

Correct Answer: D

Question 3. (Single Select)

Assume that you are the Test Manager for a small banking application development project. You have decided to adopt a risk-based testing strategy and 5 product risks (R1, R2, R3, R4, and R5) have been identified during the quality risk analysis. The following table shows the risk level associated to these product risks (higher numbers mean higher risk):

Product risk	Risk level
R1	12
R2	25
R3	4
R4	20
R5	25

55 test cases have been designed and implemented to cover all these 5 product risks. The coverage is described in a traceability matrix.

This is the test execution status table, after the after the first week of test execution:

About 56% of the planned test cases have been successfully executed.

Assume that no additional product risks have been identified during the first week of test execution.

Product risk	Test cases				Defects	
	Planned	Run	Passed	Failed	Found	Fixed
R1	25	13	12	1	1	0
R2	12	7	6	1	1	0
R3	8	8	8	0	0	0
R4	5	2	2	0	0	0
R5	5	4	3	1	1	0

Which of the following answers would you expect to best describe the residual risks associated with the identified product risks, at the end of the first week of test execution? K3 2 credits

A: Since R3 is the only risk for which all test cases have passed, the risk has been reduced by 20%

B: The test execution status table indicates that the risk has been reduced by 56%

- C: The residual risk level can't be determined, because it requires that all the test cases have been executed
- D: The test execution table doesn't give an indication of the risk level of the open defects and the test cases that failed or are not run yet

Correct Answer: D

Question 4. (Single Select)

You are the Test Manager for a project to develop a client-server application that allows wine vendors to order custom-assorted packages of wines of several winemakers to sell special packages in their wine shops.

You decide to apply a blended risk-based and reactive testing strategy. Below the exit criteria for the 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 The following are the "critical" requirements of the application:

REQ-SEL-1. The application shall allow the user to order only one package at a time

REQ-SEL-2. The application shall allow the user to select between four different packages (2-bottles, 6-bottles, 12-bottles, 15-bottles)

REQ-SEL-3. The application shall allow the user to order a package containing at least 1 bottle and no more bottles than the package size. No error messages shall be displayed if the user selects a valid number of bottles (at least 1 bottle and no more than the package size)

REQ-SEL-4. The application shall display an error message "Invalid number of bottles" if an invalid number of bottles is selected by the user (zero bottles or a number higher than the package size)

REQ-PAY-1. The application shall allow the user to pay with the three accepted credit cards (Visa, MasterCard, American Express)

REQ-PAY-2. The application shall display an error message "Invalid credit card" if invalid credit card data are given by the user

The following is the unique "critical" quality risk item that has been identified:

CR-RSK-1. The GUI of the application might accept non-integer values for the input field designed

to get the number of bottles from the user

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

TC-SEL-2. Test the selection of the package sizes

TC-SEL-4. Test wrong numbers of bottles for an order

TC-CR-RSK-1. Test the accepted values from the input field designed to get the number of bottles from the user Assume that you have used traceability to determine the logical test cases that cover all the requirements and the single risk item identified in that scenario.

Which of the following is a positive logical test that is complete and correct, and covers the REQSEL-4 requirement?

K3 2 credits

- A: Select a 6-bottles package, then try to insert 7 bottles; verify that no error messages are displayed
- B: Select a 6-bottles package, then try to insert 5 bottles; verify that no error messages are displayed
- C: Select a 6-bottles package, then try to insert 7 bottles; verify that the "Invalid number of bottles" message is displayed
- D: Select a 6-bottles package, then try to insert 7 bottles

Correct Answer: C

Question 5. (Single Select)

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?

K3 2 credits

A: 3

B: 4

C: 1

D: 2

Correct Answer: C



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