ATM^{Q&As}

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Advanced Test Manager

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QUESTION 1

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 2

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 3

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.
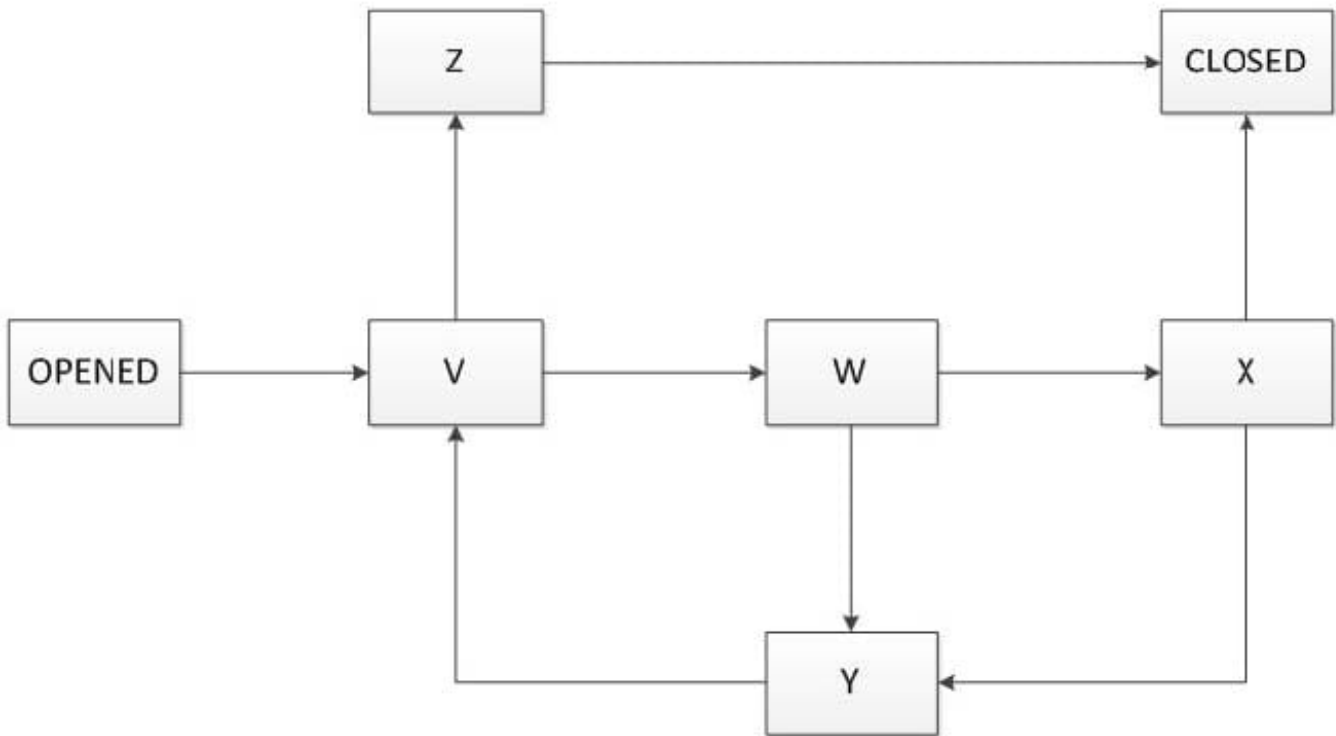
Which of the following assignments would you expect to best complete the defect management process? K3 2 credits

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

Correct Answer: C

QUESTION 4

An agile development team decides to hire a tester who has always workeD.

-

in independent test teams, reporting the problems found in a defect tracking system

-

in safety-critical projects, with a stronger focus on the quality of the product than on time and budget. This agile team is focused on short-term goals to get the product released on time and within budget.

Which of the following answers would you expect to be most likely true in this scenario?

K2 1 credit

A. Agile teams like the presence of a tester in their teams and the tester will be able to adapt to the new context without any issue

B. The developers will immediately follow the guidelines described by the tester

C. The tester can continue to report the problems found in a defect tracking system and be more focused on the quality than on time and budget constraints

D. The tester\\'s mission could be to verify adherence to requirements, instead of reporting formally the problems in a defect tracking system

Correct Answer: D

QUESTION 5

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? K3 2 credits

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

Correct Answer: A

QUESTION 6

You can count on well-written requirements, but you can\\'t count on an adequate contribution of the stakeholders to the quality risk analysis. You have to mitigate the insufficient contribution of the stakeholders because the risk-based testing approach shall minimize the product risks. Your test team has one expert tester in security testing.

Which of the following test activities would you expect to be the less important in this context?

K4 3 credits

A. Extract from the defect tracking system of the previous project all the security defects and failures, and classify them to support design and execution of specific tests

B. Automate all functional and non-functional system tests

C. Apply systematic and exploratory testing for integration and system test

D. Perform exploratory testing sessions with adequate charters covering security aspects

Correct Answer: B

QUESTION 7

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 8

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?

K3 2 credits (2 credits out of 3 credits correct, 1 credit point)

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

Correct Answer: ACD

QUESTION 9

You are the Test Manager on a project following an iterative life-cycle model. The project should consist of nine iterations of one month duration each. It is planned to develop the most important features to have a stable core of the application in the first three iterations and to add the additional features in the last six iterations. At the beginning of the first iteration, only a draft version of the requirements specification document for the core features is available. Assume that during each of the first three iterations, the chosen features are fully completed and unit tested.

Which of the following statements is true in this context?

K4 3 credits

A. The system test phase should start when all the requirements are frozen

B. You should allocate a large effort for system testing during the first three iterations

C. You should allocate all the effort for the system test phase only in the last iteration

D. You should apply the same test strategy as used in a sequential life cycle model

Correct Answer: B

QUESTION 10

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 11

Based on the historical data of 5 past and similar projects, you have calculated these average numbers of defects detected in system testinG.

-

For each 10000 LOC (lines of code), 200 defects

-

For each person-month of development team effort, 49 defects

You want to use this information to perform estimation for a new project.

The project manager tells you that he/she has estimated 20000 new LOC for this new project.

Four developers work for four months on this project before system testing.

During system testing, 797 defects are discovered.

Assume that the system test of this new project is using the same amount of work as spent in the past

projects.

Based on this information only, which of the following statement is certainly true about this project?

K3 3 credits

A. The code for the new project contains a higher defect density than the code of the past projects

B. The number of defects found during the system test phase on the new project is approximately proportional to the development team effort

C. 40000 LOC have been delivered to system testing (against the 20000 LOC planned by the project manager)

D. More LOC than planned have been delivered to system testing with a higher defect density than the past projects

Correct Answer: B

QUESTION 12

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 13

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. 1

B. 2

C. 3

D. 4

Correct Answer: C

QUESTION 14

Assume you are working on a CAS (Conditional Access System) for Pay-TV that allows the access, selection and transfer of services and media to authorized users. Authorized users can choose their services through different

channels: Web Customer Portal, IVR (Interactive Voice Response), Call Centre and SMS. The system uses a Smart Card to receive and decrypt the broadcasted encrypted control words which allow decrypting pay- per-view TV. Every authorized user must have a Smart Card and a Set-Top Box to view the contents.

The following is an excerpt from the product risk analysis document:

Both likelihood and impact have been rated on the following scale: (1 ?Very low, 2 ?Low, 3 ?Medium, 4 ? High, 5 ?Very High).

The required test environment and code have been delivered. All test cases for each identified product risk item have been written and are ready to be executed. The Database used to contain the Smart Cards is empty and so only new Smart Cards can be used during test execution.

A Smart Card can only be activated if it has been previously pre-activated. This means the post-conditions for the execution of the test cases to test the pre-activation of the Smart Card are the pre-conditions for activation of the Smart Card.

Which of the following statements represents the most effective contribution of the stakeholders to the completion of the failure mode analysis table?

Potential Failure Mode(s) - Quality Risk(s)	Priority	Severity	Detection	Detection Method(s)
Fails to connect to the PCMCIA card		3		Test; Debug
Fails to transfer the maps from the PCMCIA card		3		Test; Debug
Fails to load the transferred map		3		Test; Debug
Fails to switch from one map to another		2		Test;

K4 3 credits

A. The aircraft pilot and the customer representative should contribute to assess the detection. The chief software engineer, the system architect and the expert tester should contribute to assess the priority.

B. The aircraft pilot and the customer representative should contribute to assess the priority. The chief software engineer, the system architect and the expert tester should contribute to assess the detection.

C. The system architect and the chief software engineer should contribute to assess the priority. The expert tester is the only one who should contribute to assess the detection.

D. The aircraft pilot is the only one qualified to contribute to assess the priority and thus should be assigned this task. The customer representative should contribute to assess the detection.

Correct Answer: B

QUESTION 15

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, 6bottles, 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

QUSTION NO: 11

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 REQ-SEL-4

requirement? K3 2 credits

A. Select a 6-bottles package, then try to insert 5 bottles; verify that no error messages are displayed

B. Select a 6-bottles package, then try to insert 7 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