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ISTQB-BCS Certified Tester Advanced Level- Test Manager (2012)

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QUESTION 1

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?

- 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 2

Assume you are managing the system testing phase of a project.

The system test execution period is scheduled to twenty weeks.

All tests are manual tests. You are following a risk-driven test approach.

During the last staff meeting the project manager tells you new deadlines that will not allow completion of all the system tests.

Which of the following would you expect to be the best way to respond to this situation?

- A. Prioritize executing the tests for the highest product risks and track these risks.
- B. Remove testers from your test team, so that they can be assigned to other projects.
- C. Automate all remaining tests.
- D. No action is needed, test as much as possible in the remaining time period.

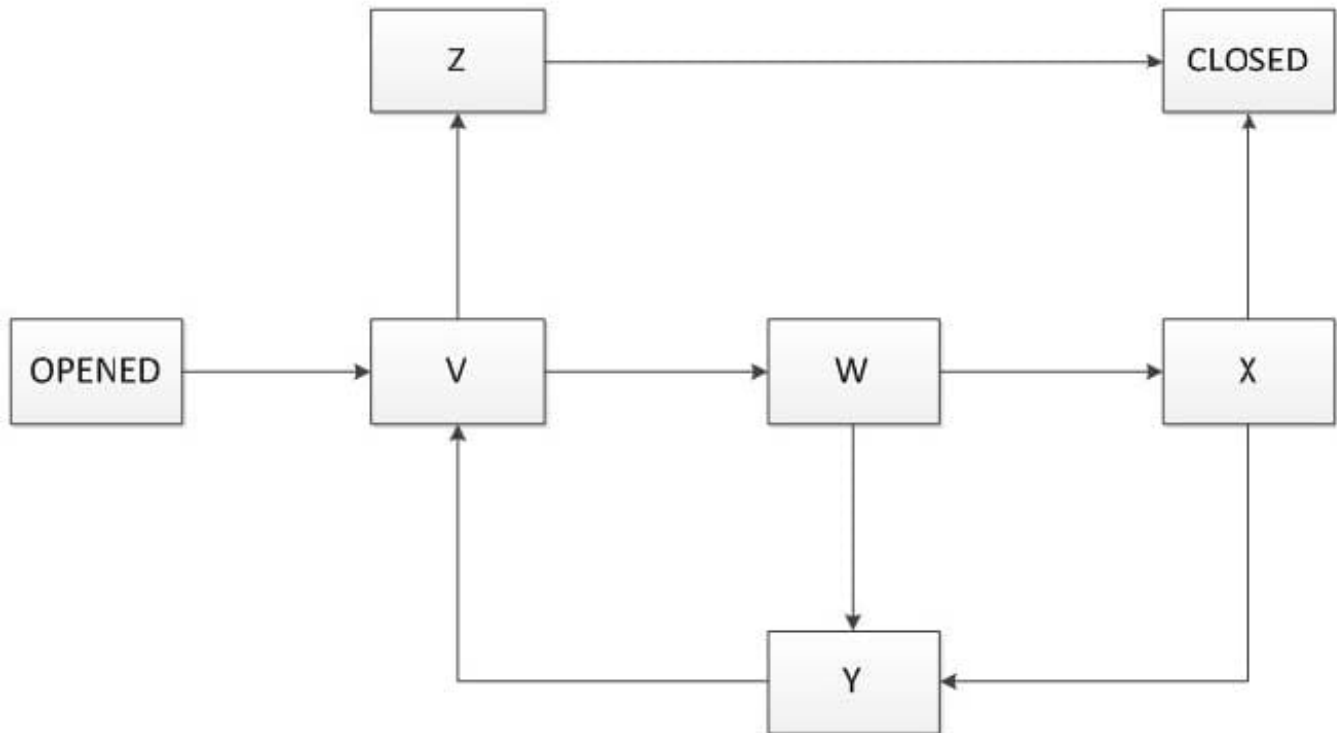
Correct Answer: A

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?

- 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

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? (Choose three.)

- A. Does the tool support all the types of code coverage required from the three levels A, B, C of the DO178B 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?

Correct Answer: ACF

QUESTION 5

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

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

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?

- 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

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