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Advanced Test Manager

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QUESTION 1

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

K2 1 credit

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

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

Which of the following is an example of the test closure activity indicated as "lessons learned"? K2 1 credit

A. Archive all the test results of the acceptance testing phase

B. Deliver a list of the open defects of a software product released into production to the service desk team

C. Participate in a meeting at the end of a project aimed at better managing the events and problems of future projects

D. Deliver an automated regression test suite, used during the system test phase of a software product released into production, to the team responsible for maintenance testing

Correct Answer: C

QUESTION 4

You are the Test Manager of a new project aimed at developing a software system that must be certified at level B of the DO-178B standard. The project will follow a V-Model software development life cycle and it will have four formal levels of testing: component, integration, system and acceptance testing.

You must produce the test plan documentation for this project by providing an adequate coordination across the four levels of testing in order to assure audit ability.

Which of the following answers would you expect to best describe how to organize the test plan?

K3 2 credits

A. Produce a single master test plan that covers in detail all four levels, describing the particular activities for all test levels

B. Produce a master test plan that covers three levels (component, integration, system test) and a separate acceptance test plan

C. Produce a master test plan describing the relationship between the four levels, and four separate detailed level test plans, one for each level

D. Produce four separate detailed level test plans, one for each level, without a master test plan

Correct Answer: C

QUESTION 5

Consider the following skills assessment spreadsheet for your test team (consisting of four team members):

This spreadsheet has three sections: technical expertise, testing skills and professionalism.

The skill levels for each skill area for both the "technical expertise" and "testing skills" sections have been rated on a four-point scale:

-E (Expert): indicates that a person has expert knowledge and experience in the skill area

-B (Beginner): indicates that a person has some knowledge and experience in the skill area but he/she is not autonomous

-W (Wants to learn): indicates that a person has no knowledge or experience in the skill area but he/she wants to learn that skill

-NI (Not Interested): indicates that a person has no knowledge or experience in the skill area and he/she is not interested to learn that skill

The skill levels for each skill area of the "professionalism" section have been rated on a three point scale (H=High, M=Medium, L=Low).

You are using this skills assessment spreadsheet in order to define a training development plan for your test team. Your objective is to fill the skill gaps by having at least a team member rated as an expert for each skill identified for the "technical expertise" and "testing skills" sections, and with the ability to train the other team members.

Considering the budget constraints you can send only one person to a training course.

Skills	Alex	Robert	John	Mark
Technical Expertise				
Programming - C / VB	E	E	E	NI
Programming - C++, Java	E	E	B	NI
Shell Scripting	E	E	B	NI
Testing Skills				
Test Planning	B	B	E	E
Test Design - Black Box	E	E	E	B
Test Design - White Box	E	E	NI	NI
Test Automation	E	E	E	NI
Performance Testing - Scripting	W	W	NI	NI
Performance Testing - Execution	W	W	NI	NI
Test Status Reporting and Metrics	E	E	E	E
Professionalism				
Test Team Building/Cross-Training	H	L	H	H
Oral Communication	H	M	M	M

Based only on the given information, which of the following answers would you expect to be the best option to achieve your objective?

K4 3 credits

A. Send Robert to a performance testing training course

B. Send Alex to a performance testing training course

C. Send John to a performance testing training course

D. Send Mark to a test automation training course

Correct Answer: B