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QUESTION 1

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

QUESTION 2

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 3

Your test team consists of four members (Mary, Bob, Mark, Dave) with different interpersonal skills.

The following skills assessment spreadsheet shows the characteristics of the team members with respect to a list of interpersonal-skills (for each characteristic only the member with the highest level of that characteristic is indicated and marked with 'X'):



Interpersonal Skill	Mary	Bob	Mark	Dave
Individualistic		X		
Unorthodox		X		
Brilliant, creative, strong intellectual power		X		
Disciplined, dutiful	X			
Hard Working	X			
Communicative	X			
Polite	X			
Collaborative	X			
Dynamic				X
Open-minded				X
Result-oriented				X
Fights idleness and inefficiency, exerts pressure				X
Single-minded			X	
Self-starting			X	
Dedicated and uncommunicative			X	

On the next project a member of your test team will have to perform some routine tasks requiring collaboration with other teams.

Who in your test team would you expect to be most suitable at doing these tasks?

K4 3 credits

- A. Mary
- B. Bob
- C. Mark
- D. Dave

Correct Answer: A

QUESTION 4

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).

Consider the following analysis of testing skills performed on four people. Alex, Robert, John and Mark (all the skills have been rated on an ascending scale. The higher the score, the better the skill):

Testing Skills	Alex	Roberta	John	Mark
Planning				
Estimation and Cost of Quality	3	2	2	5
Documentation	3	3	2	5
Quality Risk Analysis/ Management	2	3	2	5
Design/Development				
Behavioral (Black-Box)	3	5	2	2
Structural (White-Box)	3	5	3	1
Static (Reviews and Analysis)	3	4	3	2
Test Automation				
COTS Execution Tools	5	2	4	3
COTS Test Management	5	2	4	3
Test Data Generators	5	2	4	3
Execution				
Manual (Scripted and Dynamic)	3	3	4	3
Automated	3	3	4	3
Test Status Reporting and Metrics	2	4	4	3
Average Testing Skills	3,36	3,17	3,17	3,15

Which of these people, based on this analysis, would you expect to be most suitable to work specifically as test designer?

K4 3 credits



- A. Alex
- B. Roberta
- C. John
- D. Mark

Correct Answer: B

QUESTION 5

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

QUESTION 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

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