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Question 1

Question Type: MultipleChoice

Consider an agile team adopting Extreme Programming (XP) with five developers and one tester without any coding experience.

To which of the following activities would you expect the tester will contribute most?

K2 1 credit

Options:

A- Developing unit tests

B- Executing unit tests

C- Planning and executing tests during the integration test phase to detect interface defects

D- Supporting the customer in the execution of acceptance testing

Answer:

D

Question 2

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

Options:

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

Answer:

D

Question 3

Question Type: **MultipleChoice**

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

Options:

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

Answer:

B

Question 4

Which of the following answers describes a factor that may reduce the effort spent when using distributed test teams without negatively affecting system quality?

K2 1 credit

Options:

A- Difficulties in communication between the distributed test teams due to time zone differences

B- With several distributed test teams, every team assumes that some test conditions are covered by other teams but actually no one covers them

C- With several distributed test teams, two or more teams assume some test conditions are covered by their team and their team alone. But all of the teams actually cover them

D- With several distributed test teams, all of the distributed test teams use a single unified test dashboard

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 personhours.

Which of the following statements correctly describe the value of these confirmatory testing activities based on cost of quality?

K3 2 credits

Options:

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

Answer:

A

Question 6

Question Type: MultipleChoice

For which of the following activities would the costs be classified as a cost of detection? K2 1 credit

Options:

A- Writing test specifications according to the test design

B- Training developers to better understand the new features of the coding language they will use on the project

C- Re-running a test case, during the system testing phase, to verify that a fix eliminates a previously found defect

D- Fixing field failures

Answer:

A

Question 7

You are managing the system testing for a SOA based system. The integrated system consists of several subsystems:

- A SOA middleware

- A CRM (Customer Relationship Management) system

- A BRM (Billing and Revenue Management) system

- A SMS (Subscriber Management System) system and you performed a risk analysis based on these subsystems.

	Test risk scores				Bug risk scores		
	Total	Pass	Failed	Not Run	Total	Open	Resolved
SOA	80,60	75,60	1.20	3,80	11,70	0,80	10,90
CRM	50,10	18,80	3,20	28,10	14,90	0,70	14,20
BRM	19,20	18,20	0,20	0,80	2,00	0,10	1,90
SMS	19,80	17,10	0,50	2,20	2,10	0,20	1,90

At the end of the scheduled period for test execution you produce a first classical report based on the traditional metrics of testing. Test pass/fail status and bug status (open/resolved) That table provides you a distorted picture of the quality risk, because there is no

indication of the risk level of the failed tests, the tests not run, or the open bugs. Thus, you produce the following table to solve this distortion issue:

In the table above, where you have introduced the concept of risk weighting, the highest risk test or bug report has a score of 1, while the lowest risk test or bug report has a score of 0.04. Which of the following subsystems, based on the risk scores of the table, is most risky? K4 3 credits

Options:

A- SOA

B- CRM

C- BRM

D- SMS

Answer:

B

Question 8

Question Type: **MultipleChoice**

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

Options:

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

Answer:

A

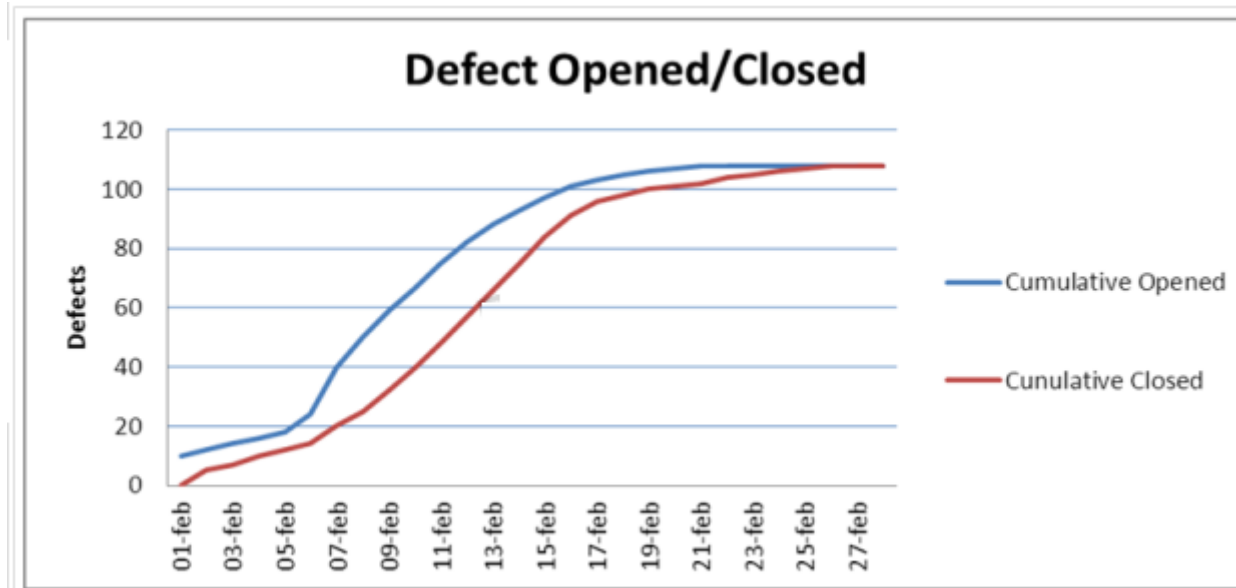# Question 9

Question Type: MultipleChoice

The following chart plots the cumulative number of defects opened against the cumulative number of defects closed during system testing of a software product.

Defect Opened/Closed

Which of the following statements is true? K2 1 credit

Options:

A- The chart indicates that you have plenty of problems left to find

B- The chart can be used to reveal test progress problems

C- The chart seems to indicate that the defect management process is not working well

D- The chart seems to indicate that the defect management process is working well

Answer:

D

Question 10

You are estimating the effort for the integration testing activities of a new project. Consider the following factors, which can affect that estimation:

Availability of re-usable test systems and documentation from previous, similar projects

Unexpected timing of components arrival

Stability of the integration test team (no turnover)

Many and geographically distributed sub-teams

Which of the following statements is true?

K2 1 credit

Options:

A- I. and II. can negatively affect the estimation
III. and IV. usually favor the accuracy of the estimation effort

B- II. and III. can negatively affect the estimation

C- and IV. usually favor the accuracy of the estimation effort

D- II. and IV. can negatively affect the estimation

E- and III. usually favor the accuracy of the estimation effort

F- III. and IV. can negatively affect the estimation

G- and II. usually favor the accuracy of the estimation effort

Answer:

C

Question 11

Question Type: **MultipleChoice**

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

Options:

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

Answer:

B