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Question 1

Question Type: MultipleChoice

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.

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:

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

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?

Number of correct responses: 1

Options:

- A- SOA
- B- CRM
- C- BRM
- D- SMS

Answer:

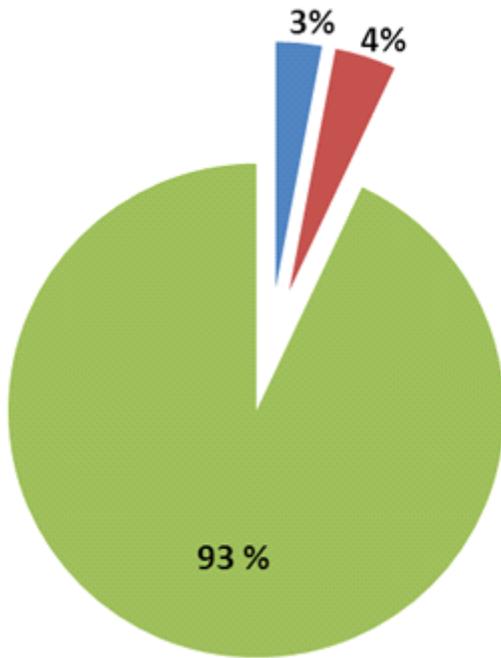
B

Question 2

Question Type: MultipleChoice

After the presentation, you are asked to explain the chart.

Assume you have applied a full risk-based testing strategy.



Which of the following answers would you expect to best describe the pie chart?

Number of correct responses: 1

Options:

- A-** All the risk items have been covered with tests. No more risk items remain to test
- B-** According to the full risk-based testing strategy applied, it is very likely that the highest-risk items, tests and bugs remain in the blue and red areas. Therefore, it is very risky to release the application

C- Only the lowest-risk items, tests and bugs should remain in the blue and red areas. Therefore the application can be released at any time subject to management of the items identified in those areas

D- 97 percent of the risk items has been tested. No open bugs or test failures remain. Only 3 percent of risk items remains to be covered by the remaining test

Answer:

C

Question 3

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?

Number of correct responses: 1

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

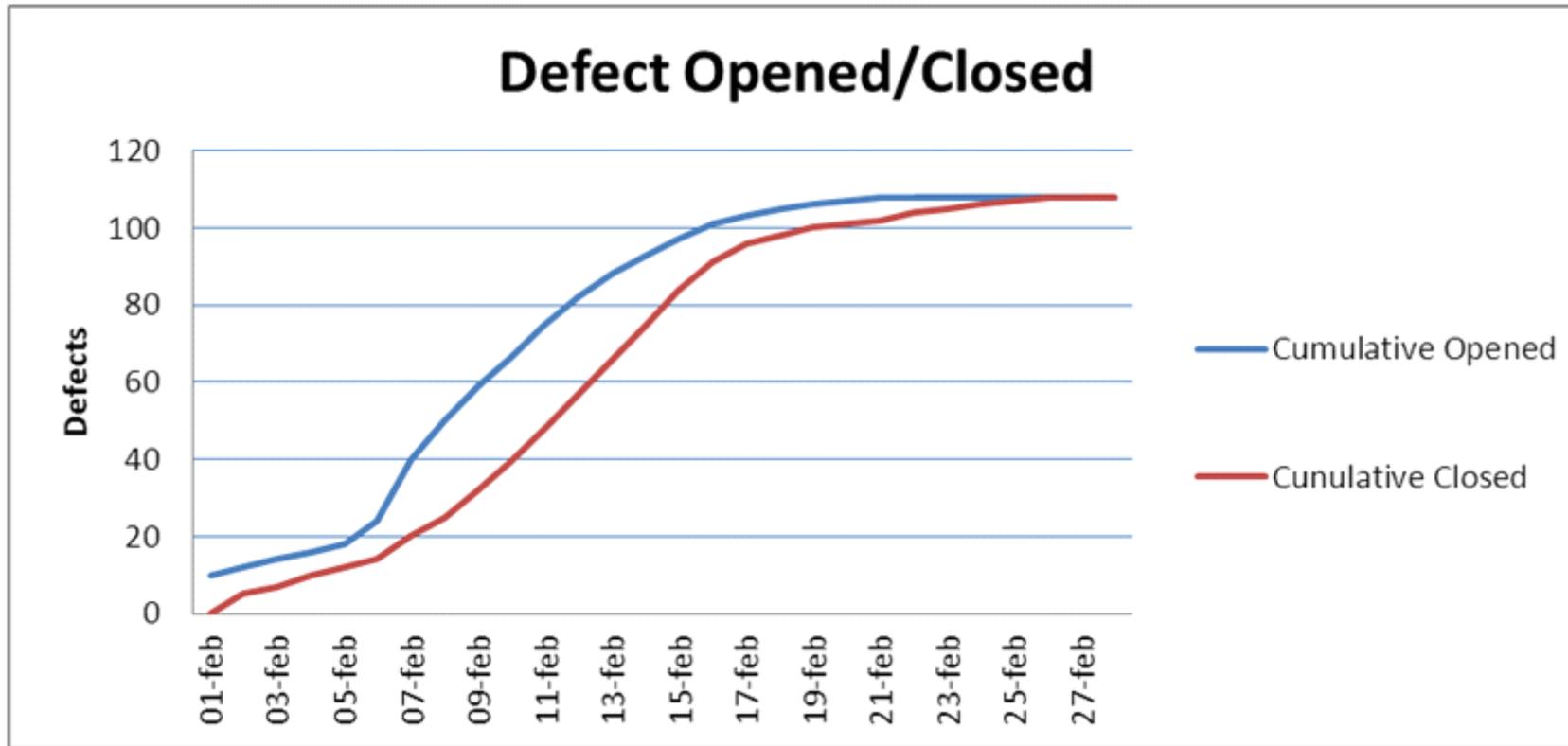
Answer:

A

Question 4

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.



Which of the following statements is true?

Number of correct responses: 1

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 5

Question Type: MultipleChoice

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?

Number of correct responses: 1

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.
and IV. usually favor the accuracy of the estimation effort
- C-** II. and IV. can negatively affect the estimation.
and III. usually favor the accuracy of the estimation effort
- D-** III. and IV. can negatively affect the estimation.
and II. usually favor the accuracy of the estimation effort

Answer:

C

Question 6

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?

Number of correct responses: 1

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

Question 7

Question Type: MultipleChoice

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 auditability.

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

Number of correct responses: 1

Options:

- 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

Answer:

C

Question 8

Question Type: MultipleChoice

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?

Number of correct responses: 1

Options:

- 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

Answer:

C

Question 9

Question Type: MultipleChoice

Consider the following test strategies:

Consultative test strategy

Reactive test strategy

Analytical test strategy

Process-compliant test strategy

Consider also the following examples of test activities:

1. Prioritize the test cases, based on the results of a FMEA analysis, to ensure early coverage of the most important areas and discovery of the most important defects during test execution
2. Execute usability testing driven by the guidance of a sample of users (external to the test team)
3. Perform exploratory testing sessions throughout the system test phase
4. On an Agile project, execute tests that cover the test conditions identified for each user story of a feature planned for an iteration

Which of the following correctly matches each test strategy with an appropriate example?

Number of correct responses: 1

Options:

A- I-2; II-3; III-4; IV-1

B- I-3; II-2; III-1; IV-4

C- I-1; II-2; III-3; IV-4

D- I-2; II-3; III-1; IV-4

Answer:

D

Question 10

Question Type: MultipleChoice

In the next two months some new features will be constantly added to new releases of a project you are working on as Test Manager.

You have identified as one of the main project risks, that the requirements specification will still be incomplete when your team starts the test design and implementation phase.

Some requirements will most likely be completed too late to allow a proper test preparation.

You and your test team have already worked on several similar past projects in the same organization.

Which one of the following options would you expect to be the most effective at mitigating this risk?

Number of correct responses: 1

Options:

A- Don't prepare any test and just run the regression test suite to check that the new features don't introduce regression

- B- Make reasonable assumptions about the missing details and design lightweight tests that can be easily updated during test execution
- C- Don't design any test until the test execution starts, then communicate that test execution is blocked due to incomplete requirements
- D- Even if there are only few details missing, escalate the risk to the project manager without preparing any tests

Answer:

B

Question 11

Question Type: MultipleChoice

In the test strategy document your organization declares:

- to adopt a V-model development lifecycle, with three formal levels of testing: unit, integration and system testing
- to use a blended risk-based and regression-averse testing strategy for each level of testing

The following is an excerpt of the "approach" section for the system test plan document of a new project:

"Testing will only use manual tests. Due to the short period of time for test execution, the following activities will be performed in parallel with test execution: Test planning, test analysis and test design.

Basic metrics will be taken for test effort (i.e. person-hours), test cases executed (passed/failed), and incidents (no more metrics, such as code coverage, will be collected)."

In the system test plan, no deviations from the test strategy are described.

Based only on the given information, which of the following statements is true?

Number of correct responses: 1

Options:

- A-** The approach described in the system test plan document is consistent with the test strategy
- B-** The approach described in the system test plan document is consistent with the risk-based testing strategy, but it is inconsistent with the regression testing strategy
- C-** The approach described in the system test plan document is consistent with the regression testing strategy, but it is inconsistent with the risk-based testing strategy
- D-** The approach described the system test plan document is inconsistent with both the risk-based and regression testing strategies

Answer:

D

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