



BCS TM12 Practice Questions

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Question 1

Question Type: MultipleChoice

Assume you are a Test Manager involved in system testing of a CRM application for a Pay-TV company. Currently the application is able to support a proper number of users assuring the required responsiveness. Since the business is expected to grow, you have been asked to evaluate the ability of the application to grow to support more users while maintaining the same responsiveness.

Which of the following tools would you expect to be the most useful at performing this evaluation?

Number of correct responses: 1



Options:

- A- Coverage tools
- B- Test management tools
- C- Static analysis tools
- D- Performance tools

Answer:

D

Question 2

Question Type: MultipleChoice

You are working on a project to develop an authentication system for an e-commerce website. This system provides two features: Registration and authentication. Two different development teams develop these two features.

There is a high likelihood that the delivery of the authentication feature to the test team will be three weeks later. To complete the registration the user must provide the following registration inputs: Name, surname, birthdate, fiscal code and he/she can select a username and a password.

A registered user can be a special user or a normal user. To be identified as a special user, he/she must also provide, during the registration process, a voucher possibly received from the IT department.

Access is granted only if a user is registered and the password is correct: In all other cases access is denied. If the registered user is a special user and the password is wrong, a special

warning is shown on the system console.

You are currently performing a quality risk analysis using FMEA.

Based only on the given information, which of the following is NOT a product risk that could be identified during the quality risk analysis?

Number of correct responses: 1

Options:

- A- The late delivery of the authentication feature to the test team causes delays in the start of test execution and this could result in a shorter test period
- B- The authentication system denies access for a special user with a wrong password, but doesn't display a special warning on the system console
- C- The authentication system grants access to a normal user with a wrong password
- D- The authentication system grants access to a special user with a wrong password

Answer:

A

Question 3

Question Type: MultipleChoice

You are performing a quality risk analysis for a CSCI (Computer Software Configuration Item) used to implement a CBIT (Continuous Built-In Test) module of a safety-critical system.

During the quality risk analysis you are trying to identify the ways in which failures of the CBIT module can occur, for each of them trying to determine the potential causes and likely effects, and the risk level (calculated as the product of three factors: severity, occurrence and detection).

Which of the following risk analysis techniques are you working with?

Number of correct responses: 1

Options:

- A- A lightweight product risk analysis technique
- B- Failure Mode and Effect Analysis
- C- Wide Band Delphi
- D- Cost of Exposure

Answer:

B

Question 4

Question Type: MultipleChoice

Assume you are currently working on a project developing a system where functional requirements are very well specified. Unfortunately non-functional requirements do almost not exist.

You are the Test Manager. You have to choose a technique for test selection that allows testing of non-functional characteristics, especially reliability.

Which of the following techniques for test selection do you expect being most useful in this scenario?

Number of correct responses: 1

Options:

- A- A model-based technique based on the creation of operational profiles
- B- Ambiguity reviews
- C- Test condition analysis
- D- Cause-effect graphing

Answer:

A

Question 5

Question Type: MultipleChoice

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?

Number of correct responses: 1

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 6

Question Type: MultipleChoice

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

Number of correct responses: 1

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 7

Question Type: MultipleChoice

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?

Number of correct responses: 1

Options:

- 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

Answer:

B

Question 8

Question Type: MultipleChoice

The following are the requirements identified as "critical":

REQ-SEL-001. The user shall be able to combine all the three products with all the four durations to define an item to purchase

REQ-SEL-002. The user shall be able to add a maximum of six different items to the shopping cart

REQ-PUR-001. The user shall be able to purchase all the items in the shopping cart using a credit voucher

REQ-PUR-002. The user shall be able to purchase all the items in the shopping cart using the available credit already charged on the smartcard

REQ-PUR-003. The user shall be able to purchase all the items in the shopping cart using all the accepted credit cards (Visa, MasterCard and Great Wall Card)

REG-LOGO-001. The user shall be able to logout (by clicking the logout button) from both the "select" and "purchase" pages going back to the "browse" page (anonymous navigation)

Moreover the following quality risk item has been identified as "critical":

QR-P1. The web customer portal might not be able to provide the expected response time (less than 10 sec) for the purchase transactions under a load of up-to 1000 concurrent users

Test analysis for system testing has just begun and the following test conditions have been identified:

TC-SEL-01. Test the combinations of products and durations to define an item to purchase

TC-SEL-02. Test the maximum number of items, which can be added to the shopping cart

TC-PUR-01. Test the purchase of an item

TC-PUR-02. Test the purchase of an item with the credit charged on the smartcard

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, is correct, and covers the REG-LOGO-001 requirement?

Number of correct responses: 1

Options:

- A- On the purchase page ("purchase state"), click the logout button; verify that the browse page ("browse state") is displayed
- B- On the select page ("select state"), click the logout button
- C- On the purchase page ("purchase state"), click the logout button; verify that the "Impossible to logout -- complete or cancel the current transaction" message is displayed
- D- On the browse page ("browse state"), click the logout button

Answer:

A

Question 9

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 10

Question Type: MultipleChoice

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

What is the MINIMUM number of test conditions that must be added to fulfill both the EXCR1 and EXCR2 exit criteria?

Number of correct responses: 1

Options:

A- 4

B- 3

C- 2

D- 1

Answer:

A

Question 11

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 12

Question Type: MultipleChoice

Which of the following statements best describes an appropriate approach for managing exploratory testing?

Number of correct responses: 1

Options:

- A- Define very detailed mission statements, which allow testing work to be broken into sessions of up to 10 minutes duration in which testing is guided by these mission statements
- B- Break the testing work in 30 to 120 minutes sessions and use properly defined mission statements consisting of two or three sentences to guide testing during these sessions
- C- Define very generic charters to drive exploratory testing sessions of 2 days where testers are completely free to decide what to test
- D- Exploratory testing should not be managed because such testing is inherently unmanageable and not measurable

Answer:

B

Question 13

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

Answer:

C

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