

## TM12<sup>Q&As</sup>

ISTQB-BCS Certified Tester Advanced Level- Test Manager (2012)

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**QUESTION 1**

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). REGLOGO-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

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

- A. 1
- B. 2
- C. 3
- D. 4

Correct Answer: C

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**QUESTION 2**

You are not confident with the assessment of the risk level and you suspect that it will be possible to find high-priority bugs in low-risk areas.

Furthermore, the period for test execution is very short. Your goal is to test all the product risks in a risk-based way, while assuring that each product risk gets at least some amount of testing.

Product risk	Risk level	Test Cases
R1	25	T1, T2
R2	12	T3, T4
R3	10	T5, T6
R4	8	T7, T8
R5	2	T9, T10

Which of the following answers describes the best test execution schedule in this scenario?

- A. T1, T2, T3, T4, T5, T6, T7, T8, T9, T10
- B. T1, T3, T5, T7, T9, T2, T4, T6, T8, T10
- C. T10, T9, T8, T7, T6, T5, T4, T3, T2, T1
- D. T10, T8, T6, T4, T2, T9, T7, T5, T3, T1

Correct Answer: B

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### QUESTION 3

Assume you are the Test Manager for a new software release of an e-commerce application.

The server farm consists of six servers providing different capabilities. Each capability is provided through a set of web services.

The requirements specification document contains several SLAs (Service Level Agreements) like the following:

SLA-001: 99.5 percent of all transactions shall have a response time less than five seconds under a load of up-to 5000 concurrent users

The main objective is to assure that all the SLAs specified in the requirements specification document will be met before system release. You decide to apply a risk-based testing strategy and an early risk analysis confirms that performance is high risk. You can count on a well-written requirements specification and on a model of the system behavior under various load levels produced by the system architect.

Which of the following test activities would you expect to be the less important ones to achieve the test objectives in this scenario?

- A. Perform unit performance testing for each single web service.

- B. Monitor the SLAs after the system has been released into the production environment.
- C. Perform system performance testing, consisting of several performance testing sessions, to verify if all the SLAs have been met.
- D. Perform static performance testing by reviewing the architectural model of the system under various load levels.

Correct Answer: B

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**QUESTION 4**

Assume you are the Test Manager in charge of independent testing for avionics applications.

You are in charge of testing for a project to implement three different CSCI (Computer Software Configuration Item):

a BOOT-X CSCI that must be certified at level B of the DO-178B standard  
a DIAG-X CSCI that must be certified at level C of the DO-178B standard  
a DRIV-X CSCI that must be certified at level A of the DO-178B standard

These are three different software modules written in C language to run on a specific hardware platform.

You have been asked to select a single code coverage tool to perform the mandatory code coverage measurements, in order to meet the structural coverage criteria prescribed by the DO-178B standard. This tool must be qualified as a verification tool under DO-178B.

Since there are significant budget constraints to purchase this tool, you are evaluating an open-source tool that is able to provide different types of code coverage. This tool meets perfectly your technical needs in terms of the programming language and the specific hardware platform (it supports also the specific C-compiler).

The source code of the tool is available.

Your team could easily customize the tool to meet the project needs. This tool is not qualified as a verification tool under the DO-178B.

Which of the following are the three main concerns related to that open-source tool selection? (Choose three.)

- A. Does the tool support all the types of code coverage required from the three levels A, B, C of the DO178B standard?
- B. Does the tool have a good general usability?
- C. What are the costs to qualify the tool as a verification tool under the DO-178B?
- D. Is the installation procedure of the tool easy?
- E. Does the tool require a system with more than 4GB of RAM memory?
- F. Is the licensing scheme of the tool compatible with the confidentiality needs of the avionics company?

Correct Answer: ACF

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**QUESTION 5**

Which of the following statements about the STEP test process improvement model is true?

- A. In the STEP model, tests validate the requirements and use cases when they are developed.
- B. The STEP model stresses defect detection and demonstration of capability, whereas the defect prevention is a secondary potential goal of testing.
- C. The STEP model assures that the system requirements specification and the test design specification processes don't overlap.
- D. In the STEP model, testware design occurs after coding.

Correct Answer: A

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