

BCS TM12 Exam

Volume: 64 Questions

Question No : 1

Assume that the following test cases have been executed at the end of the first week of test execution: TC-001, TC-002 and TC-007. All these tests are 'passes'. What is the MINIMUM number of the remaining test cases that must be successfully executed to fulfill the EX1 exit criteria?

		TEST CASES									
		TC-001	TC-002	TC-003	TC-004	TC-005	TC-006	TC-007	TC-008	TC-009	TC-010
REQUIREMENTS	REQ-001	X									
	REQ-002		X	X							
	REQ-003				X						
	REQ-004				X			X			
	REQ-005					X		X			
	REQ-006						X	X			
	REQ-007								X		
	REQ-008								X		
	REQ-009	X									
	REQ-010									X	
	REQ-011				X						
	REQ-012										X

Number of correct responses: 1

- A. 4
- B. 5
- C. 6
- D. 7

Answer: A

Question No : 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.

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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?

Number of correct responses: 1

- 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

Answer: B

Question No : 3

You are following a risk-based testing strategy. The test execution time is very limited. Assume that all the product risk items require more or less the same level of test effort.

Product Risk Item	Likelihood	Impact
The system does not accept transactions coming from the IVR channel	1	5
The system does not correctly charge a Smart Card with the required contents	2	5
The system does not activate a pre-activated Smart Card	3	5
The system does not pre-activate a Smart Card	5	3

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

Number of correct responses: 1

- A. 1- Test the acceptance of transactions coming from the IVR channel 2- Test the correct charge of the Smart Card with the required contents 3- Test the correct pre-activation of the Smart Card 4- Test the correct activation of the Smart Card
- B. 1- Test the correct pre-activation of the Smart Card 2- Test the correct charge of the Smart Card with the required contents 3- Test the correct activation of the Smart Card 4- Test the acceptance of transactions coming from the IVR channel

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C. 1- Test the correct activation of the Smart Card 2- Test the correct pre-activation of the Smart Card 3- Test the correct charge of the Smart Card with the required contents 4- Test the acceptance of transactions coming from the IVR channel

D. 1- Test the correct pre-activation of the Smart Card 2- Test the correct activation of the Smart Card 3- Test the correct charge of the Smart Card with the required contents 4- Test the acceptance of transactions coming from the IVR channel

Answer: D

Question No : 4

Testing Process

The following are the exit criteria described in the test plan of a software product:

EX1. The test suite for the product must ensure that at least each quality risk item is covered by at least one test case (a quality risk item can be covered by more test cases).

EX2. All test cases in the test suite must be run during the execution phase.

EX3. Defects are classified into two categories: "C" (critical defect) and "NC" (non-critical defect). No known C defects shall exist in the product at the end of the test execution phase.

Which of the following information is useless when the specified exit criteria is evaluated?

Number of correct responses: 1

A. A traceability matrix showing the relationships between the product risk items and the test cases

B. A list of all the open defects with the associated classification information extracted from the defect tracking system

C. A chart, showing the trend in the lag time from defect reporting to resolution, extracted from the defect tracking system

D. The execution status of all the test cases extracted from the test management tool

Answer: C

Question No : 5

Testing Process

Which of the following statements describing the consequences of specifying test conditions at a detailed level is NOT true?

Number of correct responses: 1

A. In an environment where the test basis is continuously changing, it is recommended to specify test conditions at a detailed level in order to achieve a better maintainability

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- B. The specification of test conditions at a detailed level can be effective when no formal requirements or other development work products are available
- C. The specification of test conditions at a detailed level can require the implementation of an adequate level of formality across the team
- D. For system testing, the specification of test conditions at a detailed level, carried out early in the project as soon as the test basis is established, can contribute to defect prevention

Answer: A

Question No : 6

Testing Process

Which of the following is an example of the test closure activity indicated as "lessons learned"? Number of correct responses: 1

- A. Archive all the test results of the acceptance testing phase
- B. Deliver a list of the open defects of a software product released into production to the service desk team
- C. Participate in a meeting at the end of a project aimed at better managing the events and problems of future projects
- D. Deliver an automated regression test suite, used during the system test phase of a software product released into production, to the team responsible for maintenance testing

Answer: C

Question No : 7

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

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requirement?

Number of correct responses: 1

- 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

Answer: C

Question No : 8

Testing Process

Consider an information system of a Pay-Tv company based on a SOA architecture.

The integrated system currently consists of three core systems:

- a CRM (Customer Relationship Management) system
 - a BRM (Billing and Revenue Management) system
 - a CAS (Conditional Access System) system
- all of them communicating with SOA Middleware.

You have been asked to manage the testing activities for the integration of two additional off-the-shelf systems from two different vendors: a SMS (Short Message Service) server and an IVR (Interactive Voice Response) system.

Assume that there is a high likelihood that the two off-the-shelf systems will be low-quality and that you have a clear proof that the testing performed by the two vendors on their systems has been unsystematic and unprofessional. This obviously leads to higher quality risk for the overall integrated system.

You are the Test Manager of this project. Your main goal is to plan for testing activities to mitigate this risk.

Which of the following answers best describes the test activities (assuming it is possible to perform all of them) you should plan for?

Number of correct responses: 1

- A. You should plan for an informal and minimal acceptance test of the two off-the-shelf systems and then a single end-to-end test of the overall integrated system
- B. You should directly plan for a single end-to-end test focused on end-to-end tests of the overall integrated system without an acceptance test of the two off-the-shelf systems
- C. You should plan for two levels: a system integration test and an end-to-end test of the overall integrated system

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D. You should plan for adequate re-testing of both the systems followed by a system integration test and an end-to-end test of the overall integrated system

Answer: D

Question No : 9

Testing Process

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?

Number of correct responses: 1

- 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

Answer: B

Question No : 10

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

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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

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

A. 1

B. 2

C. 3

D. 4

Answer: C

Question No : 11

A chart showing the trend in the lag time from defect reporting to resolution during system testing is also available. The chart shows that the daily closure period is consistently and significantly above the rolling closure period for a long period of the system testing phase.

Almost all defects found during system testing have been related to the system as a whole, not related to single units or integrations issues. Almost all quality risks have been addressed during the unit and integration testing phase and no residual quality risks were present in the integrated system. This has been confirmed by exploratory testing sessions performed during system testing, targeted at finding defects in these quality risk areas.

Based on the given information only, which one of the following areas would you expect to be considered more in the retrospective meeting in order to be improved?

Number of correct responses: 1

A. The requirements review

B. The defect management process

C. The quality risk analysis process