



## Swedish Software Testing Board (SSTB) International Software Testing Qualifications Board (ISTQB)

# Advanced Certificate in Software Testing Test Analyst 2012 Practice Examination Questions 2015-03-01

This Practice Exam has 56 questions Total 71 Points, 46 Points to pass (65%)

Give your answers within the marked area provided in the answer sheet.

If you write the answers on this paper they will not be recognized.

Provide **exactly** the number of answers per question as instructed in this questionnaire and in the answer sheet.

Erase any answer you decide to change and mark your new chosen answer clearly

Do NOT turn over this page until instructed by the invigilator.

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#### **SCENARIOS**

#### A Easytravel

Easytravel is a card which is used for paying journeys on buses and undergrounds. User can store credit to the card at Easytravel Loading Machines and the system automatically deducts the fee of the journey while the user shows the card to the card reader at a bus or at the underground station. You are working on an Easytravel system maintenance team and the following use case has been given to you for reviewing.

USE CASE: ADD TO EASYTRAVEL BALANCE FROM CREDIT CARD

Use case ID: UC-201201

Purpose: User is increasing the balance on their Easytravel card.

Actors: user

Pre-conditions: User has a valid Easytravel card and a credit card.

#### Main scenario:

Main Scenano.	
User	System
User sets the Easytravel	2. The system asks what the user wishes to do: (E1)
card on the reading plate of	a) query card balance (→separate use case)
the Easytravel Loading	b) add to balance of the card
Machine.	c) check latest card transactions (→separate use case)
3. User chooses "Add balance"	4. System asks the amount. (E1)
5. User selects the amount.	6. System asks for the payment method: (E1)
	a) cash (→separate use case)
	b) credit card
7. User selects credit card.	8. System asks the user to insert credit card into the credit card reader. (E1)
9. User inserts the credit	10. System shows the amount to be charged from the credit card
card.	and asks for confirmation. (E2)
11. User confirms the	12. System makes the credit card transaction and adds the amount
amount.	to the Easytravel balance.
13. User removes the credit	14. System prints out a receipt of the transaction.
card and the Easytravel card.	
	15. System returns to the main screen.

#### Exceptions:

Exception	Action
E1	User can stop the process by removing the Easytravel card from the reading plate.
E2	If the user does not accept the amount to be charged, they can cancel the operation by pressing the Cancel-button on the credit card reader.

End result: User's Easytravel balance has been increased with the selected amount and the equal amount has been charged to the credit card.





#### B Insurance company

The marketing department of insurance company, SecureLife, has started a project called HIPPOS (Health Insurance Product Public Order Sales). The purpose of the project is to create a new Internet application where potential customers can calculate insurance premiums and bonuses based on age and different health factors.

The new application will also make it possible for individual customers to order health insurance products online.

The tool and web page created by project HIPPOS will be developed and tested by SecureLife's Agile development team. The Agile development team has worked together for the last three years with the marketing department, developing web applications. The Agile team consists of well-trained testers and developers. They have implemented test automation for configuration and regression testing and they have built taxonomies of common defects and common security problems.

In Project HIPPOS the Product Owner from Marketing has presented the following requirements to the Agile team before the first release planning meeting

- 1. The Web health insurance calculator shall calculate according to the rules of calculation described by the actuary and insurance calculation business section
- 2. The user interface of the Web Health Insurance Order application shall follow the same standards as the other marketing web applications and use a predefined setup of page frames and dialogs having been used during the last two years
- 3. The Web applications shall support the latest 3 versions of each of Internet Explorer, Google Chrome, Firefox and Safari
- 4. Security must be at the same level as for other marketing web applications





### **QUESTIONS**

No	Point	Question
1.	1	Which of the following statements is TRUE with respect to when the test analyst should become involved during different lifecycle models?
		a) In Agile projects the test analyst should start test analysis and design concurrently with coding
		<ul> <li>b) In sequential V-model projects the test analyst should start test analysis concurrently with coding</li> </ul>
		c) There are no differences in the moment of involvement for test analysts for the various software lifecycles
		d) In sequential V-model projects the test analyst should start test analysis concurrently with requirement specification
		Please select exactly 1 option
2.	1	Which of the following is a type of testing that someone in the role of a Test Analyst, working with the Test Manager, should typically consider and plan for?
		a) Performance b) Security c) Maintainability d) Usability
		Please select exactly 1 option





No	Point	Question
3.	3	A project has been initiated to collect and analyze usage of a web-based search tool in order to optimize search results for particular groups of users.
		The project will build on initial analysis of user data collected over a period of time and will aim to refine the collection and analysis 'engines' so that relevant data can be collected and analyzed in real time, enabling users to focus their search more effectively.
		The project will use agile techniques in an iterative/incremental life cycle. Requirements are based on user stories and these will be explored during short 'sprints'. The sprints will be grouped to focus on data collection for the first part of the project and analysis for the second part.
		Risks include the inability to analyze the volume of data collected, inability to collect data for the desired analysis, inadequate speed and response times, and poor user interface.
		The testing for the first part has been scoped and requirements have been documented and reviewed with no major concerns arising.
		Which one of the following answers describes the most appropriate and complete sequence of activities for the TA to focus on during test analysis and design?
		Analyze user stories, identify test conditions at appropriate levels to address user stories, add test conditions for risk mitigation, select test case design techniques to achieve desired coverage, create test cases
		b) Analyze risks, create test conditions to address risks, create high level test cases to meet test conditions for risk mitigation and user stories, create all low level test cases
		c) Analyze user stories, select test case design techniques, create high level test conditions for risk mitigation, create test cases to achieve desired coverage for user stories, create risk mitigation test cases
		d) Select test case design techniques, create high level test cases to meet test conditions, create high level test cases to mitigate risks, create low level tests cases to achieve desired coverage
		Please select exactly 1 option





No	Point	Question
4.	1	Which one of the following statements does NOT give a good reason why test cases should be reviewed and understood by stakeholders?
		<ul> <li>a) Customer and users review the test cases in order to verify them against requirements, business processes and business rules</li> <li>b) Testers review test cases written by other testers in order to ensure that the test cases are consistent, understandable and executable by testers other than the author</li> <li>c) The test manager reviews the test cases in order to control the work of the test analyst and to create the organization's test strategy</li> <li>d) Developers review test cases written by testers in order to align their understanding of requirements with the testers' and to align component testing with system testing</li> <li>Please select exactly 1 option</li> </ul>





No	Point	Question
5.	3	The IT department of insurance company SecureLife has started a project IQ (Improved Quality) to implement a new health insurance application.  This to make it possible to create online transactions for health insurance claims raised by employees and members of companies or associations having health insurance agreements. In the new application it will be possible to make registration of all the information about the employees, their age, health conditions, etc. The project also has to fulfill the demands of the people doing insurance calculation, actuaries and the demands from public legislation.
		The project team for IQ have testers who are business users with lots of domain knowledge but without much formal test training.  At the same time another project, HIPPOS (Health Insurance Product Public Order Sales), has been started by the marketing department of SecureLife with the purpose of launching a new Internet application that will allow potential buyers of health insurance to use a small calculator to calculate insurance premiums and possible bonus deductions based on age and different health parameters. This application will also allow individual customers to order Health Insurance Products online.
		The marketing tool and web page of project HIPPO will be developed and tested by SecureLife's Agile development team, which has worked together for the last three years with the marketing department, developing marketing web applications. The Agile team consists of well-trained testers and developers. They have implemented test automation for configuration and regression testing and they have as part of their retrospectives built check lists of common defects and common security problems.
		As senior test analyst in SecureLife you have been asked to give input to the test strategy for the two projects, IQ and HIPPOS, regarding the level of detail and documentation required for test cases in the two projects.  Which TWO of the following are the BEST options for this strategy?
		<ul> <li>a) In project HIPPOS the test cases should be written at a concrete level with documented procedures and audit trails.</li> <li>b) In project IQ the test cases should be written at a logical level. The testers are business users and they know their business rules and calculations so no need for detailed documentation.</li> <li>c) In project HIPPOS the test cases should be written at a logical level allowing the testers flexibility in varying the details to achieve higher coverage.</li> <li>d) In project IQ the test cases should be written at a concrete level with documented procedures and traceability to requirements.</li> <li>e) In both project IQ and HIPPOS the test cases should be written as logical test cases, since we want to be as agile as possible and not spend time on documentation</li> </ul>
		Please select exactly 2 options





No	Point	Question
6.	1	Consider the following exit criterion: "All test cases must be reviewed and approved by representatives from the development and test team."
		The project team has determined that this exit criterion is critical for keeping the project on schedule.
		This exit criterion is from which test activity? How will meeting this criterion help keep the project on schedule?
		a) Test Design; by ensuring that the test team is creating the test cases that will target the correct areas with valid tests
		b) Test Design; by ensuring the test team is executing the right tests in the right order
		c) Test Implementation; by ensuring the test team is executing the right tests in the right order
		d) Test Implementation; by ensuring the test team is creating the test cases that will target the correct areas with valid tests
		Please select exactly 1 option





		Question		
You are analy required:	zing the test log	j below to dete	rmine what act	ions, if any, are
Test Step	Expected Result	Actual Result	Outcome	
1	Customer name 'Briggs'	Customer name 'Briggs'	Pass	_
2	Error 202	Error 203	Fail	
3	Customer name changed to 'Jones'	Customer name changed to 'Jones'	Pass	
4	Error OP12	Error OP21	Pass	
5	Switch to Delivery screen	Remains on Customer screen	Fail	
the actual result Which option results which option results and the positive'. Concept the first document of t	outcome for step check the test doctest documentation show 2 outcome to 'P' in incident report t step 4 to resolve 4 and 5 t step 4 to resolve Raise incident re	as expected. propriate action 2. Repeat test cumentation for on for step 5. Rays tests were corass'. Recheck of it is correct. It is an apparent 'fate an ap	to take next?  step 4 to resolve step 4 if the outer aise incident reprect the test docume Raise an incident alse positive'. An alse positive'. An alse positive'.	e an apparent 'false come is a 'fail'. orts for steps 4 and ntation for step 4 it report for step 5 aise incident reports
	required:  Test Step  1  2  3  On further inverting the actual result which option result result which option result result which option result resul	Test Step Expected Result  Customer name 'Briggs'  Error 202  Customer name changed to 'Jones'  Error OP12  Switch to Delivery screen  On further investigation test ste the actual result was 'Error 202' Which option represents the appositive'. Check the test documentation 5 if test documentation 5 if test documentation show b) Amend step 2 outcome to 'P and raise an incident report c) Repeat test step 4 to resolve for steps 2, 4 and 5 d) Repeat test step 4 to resolve for steps 2, 4 and 5 d) Repeat test step 4 to resolve for steps 2, 4 and 5 d) Repeat test step 4 to resolve for steps 2, 4 and 5 d) Repeat test step 4 to resolve for steps 2, 4 and 5 d) Repeat test step 4 to resolve for steps 2, 4 and 5 d) Repeat test step 4 to resolve for steps 2, 4 and 5 dight resolve for steps 2, 4 and 5 dight resolve for steps 2, 4 and 5 dight resolve for steps 2 dight resolve for	You are analyzing the test log below to dete required:  Test Step Expected Result  Customer name 'Briggs' name 'Briggs'  Error 202 Error 203  Customer name name changed to changed to 'Jones'  Error OP12 Error OP21  Switch to Remains on Delivery Screen  On further investigation test step 2 was resolve the actual result was 'Error 202' as expected. Which option represents the appropriate action  Amend the outcome for step 2. Repeat test positive'. Check the test documentation for Check the test documentation for step 5. Residents of the step 2 outcome to 'Pass'. Recheck and raise an incident report of it is correct. Corect Repeat test step 4 to resolve an apparent 'fa for step 2. Raise incident reports for steps 2. Raise incident reports for steps 2.	You are analyzing the test log below to determine what active required:  Test Step





No	Point	Question
8. 1 Which one of the following statements best expresses why execution status information is important?		Which one of the following statements best expresses why accurate test case execution status information is important?
		<ul> <li>a) Accurate test case execution status information helps stakeholders gain knowledge about the status of the project</li> <li>b) Accurate test case execution status information allows the test manager to evaluate the efficiency of individual test team members</li> <li>c) Accurate test case execution status information allows the test team to validate their coverage</li> <li>d) Accurate test case execution status information helps the developer decide what defects to fix first</li> <li>Please select exactly 1 option</li> </ul>
9.	1	Which of the following is a typical work product that the Test Analyst would deliver as part of the test closure activities?
		a) A list of all defects found in production and fixed in this release b) A list of all resolved defects c) A list of all rejected defect reports d) A list of all deferred defects  Please select exactly 1 option
10.	1	Which of the following statements best expresses the types of information that must be tracked during testing to enable adequate monitoring and controlling of the testing project
		<ul> <li>a) The tracking and measurement of defects, tests, coverage as well as product risks</li> <li>b) The percentage of passed and failed test cases at given points in time whereas the number of executed versus not-executed test cases is less relevant</li> <li>c) How many test cases were passed by each tester so it can be used to motivate to be more effective</li> <li>d) How many defects were introduced by each developer so adequate steps may be taken</li> <li>Please select exactly 1 option</li> </ul>





No Point	Question
<b>11.</b> 1	According to the syllabus, which of the following would be the MOST effective method of communication between test team members who are distributed across several time zones?
	<ul> <li>a) Accepting frequent builds from the developers to keep all testers working on the same version at the same time</li> <li>b) Weekly, mandatory, all personnel meetings</li> <li>c) Skype meetings for personal interaction</li> <li>d) Accurate recording of defect information in the defect tracking system</li> </ul>
	Please select exactly 1 option
<b>12.</b> 2	A project to develop a foreign exchange Automated Telling Machine for an airport has been planned and a risk assessment has shown that there are 3 key risks:  1. There is a risk that usability will be a problem for visually impaired users because the operation requires viewing several screens in sequence with relatively small text. This has been assessed as medium likelihood with high impact.  2. There is a risk that response will be relatively slow because the foreign exchange rates will be checked before each transaction; this has been assessed as medium likelihood with medium impact.  3. There is a risk that accuracy of calculations could lead to cumulative errors. This has been assessed as low likelihood with high impact.  The test strategy currently requires performance testing during system test, usability testing during User Acceptance Test and accuracy tests at every test level. The project schedule is under time pressure.  Which of the following possible risk mitigation actions should be prioritized as highest?  a) Defer usability testing until UAT and recruit visually impaired testers to join the UAT team  b) Review the calculation algorithms and work with specialists to define a data set for calculation tests  c) Spend time with developers to Identify operational scenarios to test performance d) Allow access to the system for usability testing during integration





No	Point	Question
13. 1 Which of the following statements about cause-effect		Which of the following statements about cause-effect graphing is NOT true?
		a) Cause-effect graphs are used to show the functional logic of the test object visually.  b) Cause offect graphs are used to show the functional logic of the test object visually.
		<ul> <li>b) Cause-effect graphing can be more time-consuming and challenging to learn than other techniques, since they require the use of notation that has been agreed upon with all the parties involved.</li> </ul>
		<ul> <li>c) Cause-effect graphs are often created to support the creation of decision tables, but they can easily become too large to be practical.</li> </ul>
		d) Cause-effect graphs can show only one type of relationship (and, or, is, is not) in the diagram at a time.
		Please select exactly 1 option
14.	2	A company has set up an employee wellness program and combined it with the premium for health insurance:
		The full standard premium for a health insurance policy is €400.
		The program have the following rules:
		<ol> <li>Employees who make a pledge — on the honor system — that they don't smoke, or that they take a stop-smoking class, and have a BMI below 30, get 10% off their contribution toward the full standard insurance premium.</li> </ol>
		<ol> <li>Employees who fill in a "health risk assessment" with more health details will be rewarded with a €25 reduction in premium.</li> </ol>
		3) Employees who participate in a yearly health control at the company a) receive a €50 reduction in their premium for having a BMI of 27.5 or less, and a €25 reduction for having a BMI below 30. And b) if they are non-smokers, they receive an additional €50 reduction in their premium, and those that have joined a stop-smoking class receive a €25 reduction. Smokers pay an additional premium of €75.
	/	How many test cases are needed to achieve 100% test coverage of equivalence partitions of the input parameters, when testing this specification by applying the equivalence partitioning test design technique and what will be the maximum and minimum resulting premium?
		<ul> <li>a) 4 test cases and a maximum premium of €400 and minimum premium of €275</li> <li>b) 3 test cases and a maximum premium of €475 and minimum premium of €235</li> <li>c) 3 test cases and a maximum premium of €400 and minimum premium of €275</li> <li>d) 6 test cases and a maximum premium of €475 and minimum premium of €235</li> </ul>
		Please select exactly 1 option





No	Point	Question
15.	2	The participants in a yearly health check for employees are required to answer questions about smoking: Whether they are non-smokers, have started a stop-smoking class, or are smokers. This is a distractor that is probably too strong, suggest delete.
		Their BMI (Body mass index) is measured in the following categories: 18.9 or less is underweight, 19 to 24.9 (inclusive) is normal, from 25 to 29.9 (inclusive) is overweight, and 30 or more is heavy overweight
		Their blood pressure is measured in categories from optimal to severely high. For simplicity in this example, only the high blood pressure (systolic) will be considered: Everything under 120 is optimal, up till 129 (inclusive) is normal, from 130 to 159 (inclusive) is medium high, and from 160 up till 179 (inclusive) is high and everything over that is severely high
		How many test cases are need to achieve 75% test coverage when testing this specification by applying the boundary value analysis test design technique using 2 values per boundary and testing BMI and blood pressure only with positive integer values? Each test case has both BMI and blood measures as data values
		a) 4 b) 8 c) 3 d) 6
		Please select exactly 1 option





No	Point	Question
16.	2	The insurance company GoodHealth has launched a new health insurance product - for all customers both new and existing - with the following specification:
		Standard premium fee is 500€.
		A bonus program offers customers buying the health insurance product with a 25€ discount to the standard premium fee to accept participating in the medical tests even if they are not participating.
		The customers get a 25€ discount to the standard premium for everyone of four medical tests (BMI, blood pressure, glucose and cholesterol) that they take as part of the yearly medical test plus an extra 75€ if they take all the tests.
		How many test cases are needed when using a collapsed decision table? How many test cases are needed when using a non-collapsed decision table but with the limitation to test customers who do not accept to participate in any medical tests, only with one test case?
		<ul> <li>a) 4 tests are needed for a collapsed decision table</li> <li>b) 18 are needed for the not-collapsed decision table</li> <li>c) 5 tests are needed for a collapsed decision table</li> <li>d) 17 are needed for the not-collapsed decision table</li> </ul>
		e) 6 tests are needed for a collapsed decision table
		Please select exactly 2 options





No	Point	Question
17.	2	When an employee requests payment of a claim from his/her health insurance, this request follows the sequences of states shown in the diagram from being requested until it is closed and removed.  If information is missing or changed, the claim may be moved back to an earlier state to prevent payment. There are the following restrictions: If a claim in state Accepted has been Closed it can only be restored to the same state Accepted. If a claim in state Activated has been Closed it can only be restored to state Activated.
		Requestied  Accepted  Activated ted  Closed  Removed
		<b>Starting from</b> Activated: what is the number of 0-switch transitions and what is the number of allowed 1-switch?
	/	<ul> <li>a) 4 0-switch transitions</li> <li>b) 11 1-switch transitions</li> <li>c) 12 1-switch transitions</li> <li>d) 8 1-switch transitions</li> <li>e) 5 0-switch transitions</li> </ul> Please select exactly 2 options





No	Point	Question
18.	2	A company offering house insurance policies has several policy options.  They depend on the following factors:  - Building type: house, semi-detached, apartment building, cottage - Material: wood, concrete, brick, mixed - Location: city, suburb, countryside, wilderness  You are testing the system and using the pairwise technique for creating test cases.  Using the pairwise technique, how many test cases are required to achieve 2-wise coverage?  a) 4 b) 256 c) 12 d) 16  Please select exactly 1 option
19.	2	Easytravel is a card which is used for paying journeys on buses and undergrounds.  The user can store credit to the card at the Easytravel Loading Machines and the system automatically deducts the fee of the journey while the user shows the card to the card reader on a bus or at the underground station  The system allows the user to load 10, 20, 30, 40, 50 Euros or another, user-defined amount to the card. There are four payment methods available: cash, credit card, debit card or pay-by-phone. After the transaction, the system allows the user to view or print the balance on a receipt  Using the Classification Tree method, what is the minimum number of test cases for 100 % 1-wise coverage?  a) 12 test cases b) 3 test cases c) 2 test cases d) 6 test cases





No	Point	Question
20.	2	Consider the scenario "Easytravel".  How many test cases are required to achieve the minimum coverage for this use case?
		a) 9 b) 1 c) 6 d) 2
		Please select exactly 1 option
21.	1	Which of the following is true regarding user stories?
		<ul> <li>a) User stories describe all the activities required from a user in order for them to perform a certain functionality.</li> <li>b) User stories describe functional and non-functional characteristics of a specific small part of a system that must be tested and demonstrated by the team.</li> <li>c) User stories are an extension to use cases and used in a similar way as a basis for test cases in acceptance testing.</li> <li>d) User stories are stories told by users regarding their experiences in using the system after it has been implemented.</li> <li>Please select exactly 1 option</li> </ul>





No	Point		Question								
22.	2	Airliners a			_					ng the air	
		A recent c increasing recognize passenger	size of ai a change	rliners.	An air tr	affic cor	ntrol syste	m has	been mo	odified to	
		The new c 9500kg, a					_	•		00kg and	
		Option	Tes	t 1	Tes	st 2	Test	: 3	Te	est 4	
		Ориоп	Wt	Cap	Wt	Cap	Wt	Сар	Wt	Cap	
		1	5500	450	4700	450	8500	350	4000	600	
		2	5500	475	4500	575	4800	545	9500	550	
		3	7500	375	4700	550	4600	560	9600	600	
		4	4700	350	9500	550	4500	600	9600	600	
		Which opti				es an a	dequate to	est for	this new	class of	
		b) 2 c) 1 d) 4			, (						
		Please sel	ect exactl	y 1 optio	on						





Point	Question
3	A system is being specified for use by automotive dealers.
	The system will provide the ability to configure a vehicle's optional characteristics (e.g. engine size, external trim, color), visualize the configured vehicle and generate the retail price of the vehicle. An existing system can provide a visual model of any single configuration but it does not enable the user to modify the configuration in the same session. This system is being used as a development prototype from which it is expected that the required functionality can be generated more quickly than working from scratch, and time scales have been adjusted for a rapid delivery.  Which TWO of the following test case design techniques would together give the best chance of achieving acceptable test coverage in the available time frame?  a) Equivalence Partitioning b) State Transition Testing c) Use Story Testing d) Classification Tree e) Boundary Value Analysis  Please select exactly 2 options
1	<ul> <li>Which of the following describes typical characteristics of defect-based testing techniques?</li> <li>a) Defect-based techniques are mainly used at the component test level</li> <li>b) Defect-based techniques are based on the analysis and classification of previously found defects</li> <li>c) Defect-based techniques are a sub-category of specification-based techniques</li> <li>d) Defect-based techniques concentrate on defects found during the analysis of the documentation of a system</li> <li>Please select exactly 1 option</li> </ul>
	. Isass solutionally i option
	3





No	Point	Question
25.	3	You have just joined a new software organization.
		They have a product that is in production but it has a large number of usability issues that have been recorded against it. This particular product is a data entry product that records information about new insurance customers. The primary users of the product are data entry operators who input up to 1,000 new entries each day. You have been asked to select a good user interface checklist that can be used to test this product.
		Which TWO of the following are items that should be included in this checklist?
		<ul> <li>a) Verify the tab order of the input fields</li> <li>b) Load test with virtual users entering the equivalent of 1000 transactions in an eight hour period</li> <li>c) Verify that access is limited to those with the right permissions</li> </ul>
		d) Verify proper rule checking for validity for date fields e) Verify that data is saved accurately to the database
		Please select exactly 2 options
26.	1	Which of the following statements BEST explains experience-based testing?
		<ul> <li>a) Experience-based techniques should generally be used if there are no suitable formal techniques or if it takes too much time and effort to use them</li> <li>b) If checklists are used, experience-based testing can be more systematic and efficient and can replace specification-based techniques</li> <li>c) Experience-based techniques rely on the tester's knowledge and experience and can therefore be used to increase the test coverage as the tester knows which areas need more testing</li> <li>d) If the testers are experienced and have good knowledge of the system under</li> </ul>
		test, experience-based techniques are a viable alternative to more formal techniques if there are problems with the quality of the documentation or if the project is under a tight schedule  Please select exactly 1 option
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No	Point	Question
27.	2	You are a Test Analyst on a new project.
		The requirements documents are on a very high level, containing little detail about the problem the software should address. As a result, your manager has decided that exploratory testing will be a primary test technique used for this project. You have been given the task of specifying, executing and recording the test sessions.
		Which THREE of the options below define what you will need or will use for specifying, executing and recording the sessions?
		<ul><li>a) Use the less experienced testers on the team to provide a new approach and fresh view to the testing effort</li><li>b) Create test charters and assign time boxes for each planned exploratory session</li></ul>
		<ul><li>c) Use debriefing sessions with the test manager or a test lead to record the results of the test sessions</li><li>d) Define the test cases to be executed and enter them into the test management</li></ul>
		<ul> <li>tool for tracking</li> <li>e) Log defects into the defect management system but do not record a pass/fail for the exploratory session because duplicating the results could be difficult</li> <li>f) Record the results in email and send the email to the test manager and test lead</li> <li>g) Procure domain knowledge to be applied during the exploratory session</li> </ul>
		Please select exactly 3 options
28.	3	Consider the scenario "Insurance company".  The Agile team has been asked to prepare a testing strategy. The Product Owner asks the team to present their proposal for the use of testing techniques at the release planning meeting.  Which one of the following proposals best supports the given scenario?
		<ul> <li>a) The Agile team will use defect based testing as the primary testing technique for story 1-4. For story 1 EP and BVA will also be used and specification based testing will be used as extra technique for story 4</li> <li>b) The Agile team will use specification based testing as the primary testing technique for story 1-4. For story 1 state transition and boundary value analysis (BVA) will also be used and exploratory testing will be used extra for story 4</li> <li>c) The Agile team will use Exploratory testing for story 1-4. For story 1 the specification based techniques: decision and branch testing will also be used, automated configuration testing for story 3 and attack-based testing will be used extra for story 4</li> <li>d) The Agile team will use Exploratory testing and defect-based testing as the primary testing techniques for stories 1-4. For story 1 decision table testing will also be used, automated configuration testing for story 3 and attack-based testing using a checklist will be used extra for story 4</li> </ul>
		Please select exactly 1 option





No	Point	Question
29.	1	You are testing an application that handles credit card transactions.
		Because of the nature of the application, the demands for the quality of the system are high: the system shall work accurately and in compliance with the regulations regarding the applications dealing with credit cards. In addition, as there are many systems to which this application is connected to, the interaction between them is critical and shall be flawless.
		Which three of the following techniques would be MOST appropriate when testing this application?
		a) State transition testing b) Exploratory testing c) Volume testing d) Use case testing e) Decision table testing f) Error guessing g) Usability testing
		Please select exactly 3 options
30.	1	Assume you work for a company that has developed a software component to help users securely and easily manage all the passwords they have defined for different websites.  This component is integrated into hundreds of websites, used by millions of people
		world-wide. A new software version of the component is being developed. The main feature of this version is the integration with a specific operating system that does not currently support this component. You are the test analyst responsible for creating the interoperability tests.
		Which one of the following defects would be considered OUT OF SCOPE for interoperability testing to detect?
	/	<ul> <li>a) Passwords are not saved for all websites which integrate with the component</li> <li>b) Saving the passwords becomes too complicated for some users</li> <li>c) 5% of the websites do not run on a specific operating system</li> <li>d) Passwords are truncated on some browsers</li> </ul>
		Please select exactly 1 option





No	Point	Question
31.	1	Assume you work for a company that has developed a software component to help users securely and easily manage all the passwords they have defined for different websites.  This component is integrated into hundreds of websites, used by millions of people
		world-wide. A new software version of the component is being developed. The main feature of this version is the integration with a specific operating system that does not currently support this component. You are the test analyst responsible for creating the interoperability tests.
		Which two of the following statements correctly defines the level in the testing lifecycle in which the relevant test should first be performed?
		a) Testing that the passwords are saved accurately should be performed during component testing
		<ul> <li>b) Testing that the passwords are saved accurately for all browsers should be performed during system test</li> </ul>
		<ul> <li>c) Testing that the passwords are saved easily should be performed during acceptance testing</li> </ul>
		d) Testing that passwords are saved for all websites that integrate the component should be performed during component testing
		e) Testing that the passwords are saved securely on the newly integrated operating system should be performed during component testing.
		Please select exactly 2 options





No	Point	Question
32.	3	Your company has already released a video game product to the market, but it received many complaints from the users regarding performance, usability, security and portability.
		You have been chartered with overseeing the usability testing for the next release of the game. So far, the user interface looks much better and the response time is greatly improved. The product is stable and all the new features have been completed and summative testing has been completed.
		Which one of the following would be a reasonable next step?
		a) Verify the usability by conducting formative usability testing and validate the usability by simulating a realistic load in the lab environment and verifying the user experience with the response time
		b) Verify the usability by conducting usability testing in a usability lab with a sample of real users and validate the usability by releasing the product because it is a time-critical product that must be released within the market window
		c) Verify that all stated usability requirements have been met and validate the usability by conducting usability testing in a usability lab with a sample of real users
		<ul> <li>d) Verify the usability by running a side-by-side feature comparison with the existing production version and validate the usability by developing a prototype that can used for review with the sales people</li> </ul>
		Please select exactly 1 option





No	Point	Question
33.	1	You are an experienced test analyst who has been assigned to a new project that is very important to your company.  Management has decided that the development model to be used will be the V-model. You have been given the task of participating in the review process for the project from beginning to end.
		<ul> <li>Which two of the following statements describes how you prepare for each review in the project, and why it is important?</li> <li>a) Prior to the requirements review, you read the requirements document, checking that the requirements are unambiguous, complete and testable. The more defects found and fixed at this stage, the less found later on</li> <li>b) For the system test plan review, you create user stories which will be used to see whether the system will be tested in the same way it will be used</li> <li>c) In preparation for component test design review, you read the design document and the code of the component being developed and tested, in order to ensure that testing covers everything</li> <li>d) In preparation for the integration test plan review, you read the architecture specification in order to consider dependencies between the components that are being integrated, so that the integration is performed efficiently</li> <li>e) During a system test plan review, you review the defects found during component test, to determine which components need more testing, and which test techniques would be most useful</li> <li>Please select exactly 2 options</li> </ul>
34.	3	Consider the scenario "Easytravel".  Which two of the following statements are true regarding this use case?  a) Each path (main and alternatives) is testable. b) All alternative paths are clearly identified. c) The main path in the use case is clearly defined. d) User interface messages are defined. e) There is only one main path in the use case  Please select exactly 2 options





No	Point	Question
35.	3	You are reviewing the following requirements specification document:
		Document: Req spec 101-A
		Object: Transaction screen
		Author: Susie Specifier
		Date written: 2012-03-15
		Version: 0.23
		System: Bookkeeping TA-AB1
		Subsystem: 2a15
		Description:
		<ul> <li>User must be able to browse customer's transactions on the customer's account. It must be possible to view the transactions either chronologically from the oldest to the newest or the opposite way, or by their transaction ID</li> </ul>
		There should be 20 transactions, at the minimum, visible on the screen at one time and the user must be able to scroll forward and backward
		The field containing the detailed transaction information must be long enough to contain the name of the transaction counterparty (max 20 char), their ID number (6 digits) and the transaction identifier (8 digits)
		It must be possible to change between the Transaction screen and User information screen with the "Swap screen" –button
		<ul> <li>The layout of the screen is described in more detail in a separate document.</li> <li>The retrieval time of new data must be less than 3 seconds per screen. The number of simultaneous users will vary between 20 and 40 and is expected to increase to 60 within a</li> </ul>
		year  • More details about the performance requirements can be found in a separate performance requirements specification document
		The following is the checklist you are using for this review:
		1. Is each requirement testable?
		Does each requirement have acceptance criteria listed?
		3. Is a use case calling structure available (if applicable)?
		4. Are the requirements uniquely identified?
		5. Is the specification versioned?
		6. Is there traceability visible from each requirement to the business/marketing requirements?
		7. Is there traceability between the requirements and the use cases?
		You are reviewing the specification above with the provided checklist. Assume you have access to the document that provides more information about the screen layout.
		Which of the items on the checklist are NOT met by the specification?
		a) 4, 6, 7 b) 3, 5, 7 c) 1, 2, 3 d) 2, 4, 5
		Please select exactly 1 option





No	Point	Question
36.	1	How does phase containment contribute to reducing the cost of development?
		<ul> <li>a) By concentrating the testing effort on the phases where failures occur.</li> <li>b) By using specific test techniques at each level and only at that level</li> <li>c) By eliminating defects as early as possible to minimize defect propagation</li> <li>d) By ensuring that the deliverables from any life cycle phase are tested only in that phase</li> </ul>
		Please select exactly 1 option
37.	1	Which TWO of the following may more frequently need to be explained in greater detail for non-functional defect reports than for a functional defect report?  a) Test data used to identify the fault b) Steps to reproduce the defect c) Actual results d) Expected results
		e) Level of load on the system at the time of failure
		Please select exactly 2 options





No	Point	Question
38.	3	A project to build a control system for a national fire service is being conducted on a government contract which has strict deadlines and penalties will be incurred for late delivery.
		Acceptance criteria include limits on the number of outstanding defects of different levels of severity at the end of user acceptance. The system embodies a sophisticated user interface based on an innovative design that has not yet been deployed in any other system and which is critical to the effectiveness of the system. The project is using a waterfall life cycle but with incremental deliveries based on priorities of individual requirements. The project will make use of a defect classification system during development and the tool in use will allow up to 3 separate classifications to be used.
		Which one of the following defect classifications will BEST meet the project's needs?
		<ul> <li>a) Defects outstanding by priority, project phase in which the defect was detected, suspected cause of defect (e.g. requirements, design)</li> <li>b) Symptom (i.e. what aspect of the system is affected, outstanding defects by priority, suspected cause of defect (e.g. requirements, design)</li> <li>c) Defects outstanding by severity, project phase in which the defect was introduced (e.g. requirements, design), symptom (i.e. what aspect of the system is affected)</li> <li>d) Project activity that resulted in the defect being detected (e.g. review, inspection), total defects by severity, work product in which the mistake was made</li> <li>Please select exactly 1 option</li> </ul>
39.	1	<ul> <li>Why is root cause analysis important?</li> <li>a) It applies an industry standard taxonomy of the known root causes that result in the creation of defects</li> <li>b) It promotes discussion between the tester and the developer</li> </ul>
		c) It helps identify root causes that are responsible for a significant amount of defects d) Often, a large number of defects are caused by unclear requirements Please select exactly 1 option





No	Point	Question
40.	1	Which one of the following is a benefit of using a classification tree tool for test design?
		<ul> <li>a) The tool will generate automated test code that can then be executed by the Test Analyst</li> <li>b) The tool will generate the combinations of the specified options that the Test Analyst should test</li> <li>c) The tool will create the list of the inputs to be tested and the expected results</li> <li>d) The tool will create test scenarios that will achieve 100% coverage of the specified combinations</li> </ul>
		Please select exactly 1 option
41.	1	In an organization using keyword-driven automation, which of the following activities typically is the responsibility of the Test Analyst?  a) Write the code to automate the key processes b) Write manual tests for the key business processes that can then be automated c) Work with the users to define the key usability aspects of the software d) Identify the key business processes that must be tested  Please select exactly 1 option
42.	1	You are a Test Analyst on a project. You are running an automated test case and it has just failed. What should be your first step?  a) Call the Technical Test Analyst to troubleshoot it b) Run the same test case manually to see if it fails c) Alter the data and run the test again d) Write a defect report  Please select exactly 1 option





Please return this questionnaire and all your notes together with your answer sheet at the end of the examination.