



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

**Advanced Certificate in Software Testing
Test Analyst
Version 3.1
Examination Questions
2021-08-21**

**Time allowed: 2:00
(For non-native English speakers: 2:30)**

There are 40 questions.

K2 question: Correct answer 1 point, wrong answer 0 point
K3 question: Correct answer 2 points, wrong answer 0 point
K4 question: Correct answer 3 points, wrong answer 0 point

Total 80 points; You need 52 points to pass (65%)

You must follow directives given to you by the proctor during the whole exam.

Mark your answers in the provided answer sheet. Try to answer all questions. Select one option per question if nothing else indicated. Erase any answer you decide to change and mark your new chosen answer clearly.

You are not allowed to keep the questionnaire, other documents, or notes. All papers must be handed back to the invigilator at the end of the exam.

QUESTIONS

No	Point	Question
1.	1	<p>You are working on a project testing a new application that handles foreign currency exchange transactions.</p> <p>Much of the software which handles calculations and money transfers has been re-used from a similar application which has been used for over 3 years by the experienced company. Several new functions are to be added to the new application to improve the user experience and display graphical information better. The users have not been fully involved in the definition of these new aspects and new functions have therefore been implemented according to the developer's expectations.</p> <p>As a Test Analyst, which of the following quality characteristics would you focus <u>MOST</u> on when testing the new application?</p> <p>a) Replaceability b) Functional completeness c) Recoverability d) Functional correctness</p> <p>Please select exactly 1 option</p>
2.	3	<p>Consider a multi-language web application with the following requirements:</p> <ul style="list-style-type: none"> • Support three different languages: English, French and Swedish • Run on three different browsers: Chrome, Firefox, Edge • Run on three different operating systems: Windows 7, Windows 8, Windows 10 <p>You have been asked to test the correct behavior of this application for all the possible combinations of languages, browsers, and operating systems.</p> <p>Due to the restricted amount of time you decide to apply the pairwise testing technique for creating test cases.</p> <p>Using the pairwise technique, what is the MINIMUM number of test cases needed to achieve all pairs coverage?</p> <p>a) 3 b) 6 c) 9 d) 27</p> <p>Please select exactly 1 option</p>

No	Point	Question																								
3.	3	<p>Easytravel is a card which is used for paying travels on buses and subways. The user can store credit to the card at the Easytravel Loading Machines and the system automatically deducts the journey fee when the user inserts the card into the card reader on a bus or at the subway station. You are a member of the Easytravel project team, and the following user story has been given to you for reviewing.</p> <p><u>USE CASE: ADD TO EASYTRAVEL BALANCE FROM CREDIT CARD</u> Use case ID: UC-201201 Purpose: User is increasing the balance on their Easytravel card. Actors: user, system Pre-conditions: User has a valid Easytravel card and a credit card.</p> <p>Main scenario:</p> <table border="1"> <thead> <tr> <th>User</th> <th>System</th> </tr> </thead> <tbody> <tr> <td>1. User inserts the Easytravel card into the card reader of the Easytravel Loading Machine.</td> <td>2. The system asks what the user wishes to do: (Exception E1) <ul style="list-style-type: none"> • Query card balance (→separate use case) • Add to balance of the card • Check latest card transactions (→separate use case) </td> </tr> <tr> <td>3. User chooses “Add balance”</td> <td>4. System asks the amount. (Exception E1)</td> </tr> <tr> <td>5. User selects the amount.</td> <td>6. System asks for the payment method: (Exception E1) <ul style="list-style-type: none"> • Cash (→separate use case) • Credit card </td> </tr> <tr> <td>7. User selects credit card.</td> <td>8. System asks the user to insert credit card into the credit card reader. (Exception E1)</td> </tr> <tr> <td>9. User inserts the credit card.</td> <td>10. System shows the amount to be charged from the credit card and asks for confirmation. (Exception E2)</td> </tr> <tr> <td>11. User confirms the amount.</td> <td>12. System makes the credit card transaction and adds the amount to the Easytravel card balance.</td> </tr> <tr> <td>13. User removes the credit card and the Easytravel card.</td> <td>14. System prints out a receipt of the transaction.</td> </tr> <tr> <td></td> <td>15. System returns to the main screen.</td> </tr> </tbody> </table> <p>Exceptions:</p> <table border="1"> <thead> <tr> <th>Exception</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>E1</td> <td>User can stop the process by removing the Easytravel card from the card reader.</td> </tr> <tr> <td>E2</td> <td>If the user does not accept the amount to be charged, he can cancel the operation by pressing the Cancel button on the credit card reader.</td> </tr> </tbody> </table> <p>End-result: User’s Easytravel card balance has been increased with the selected amount and the equal amount has been charged to the credit card. How many test cases are required to achieve the MINIMUM coverage for this use case?</p> <p>a) 2 b) 6 c) 9 d) 1</p> <p>Please select exactly 1 option</p>	User	System	1. User inserts the Easytravel card into the card reader of the Easytravel Loading Machine.	2. The system asks what the user wishes to do: (Exception E1) <ul style="list-style-type: none"> • Query card balance (→separate use case) • Add to balance of the card • Check latest card transactions (→separate use case) 	3. User chooses “Add balance”	4. System asks the amount. (Exception E1)	5. User selects the amount.	6. System asks for the payment method: (Exception E1) <ul style="list-style-type: none"> • Cash (→separate use case) • Credit card 	7. User selects credit card.	8. System asks the user to insert credit card into the credit card reader. (Exception E1)	9. User inserts the credit card.	10. System shows the amount to be charged from the credit card and asks for confirmation. (Exception E2)	11. User confirms the amount.	12. System makes the credit card transaction and adds the amount to the Easytravel card balance.	13. User removes the credit card and the Easytravel card.	14. System prints out a receipt of the transaction.		15. System returns to the main screen.	Exception	Action	E1	User can stop the process by removing the Easytravel card from the card reader.	E2	If the user does not accept the amount to be charged, he can cancel the operation by pressing the Cancel button on the credit card reader.
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4.	1	<p>Which of the following alternatives describes the most appropriate and complete set of activities for the Test Analyst to focus on during test analysis and design?</p> <ul style="list-style-type: none"> a) Analyze the test basis, select test techniques, create high-level test conditions for risk mitigation, create test cases to achieve desired coverage of the test basis, and create risk mitigation test cases b) Select test techniques, create high-level test cases to meet test conditions, create high-level test cases to mitigate risks, and create low level tests cases to achieve desired coverage c) Analyze the test basis, identify test conditions at appropriate levels to address the test basis, add test conditions for risk mitigation, select test techniques to achieve desired coverage, and design test cases d) Analyze risks, create test conditions to address risks, create high-level test cases to meet test conditions for risk mitigation, and create all low-level test cases <p>Please select exactly 1 option</p>
5.	1	<p>Which one of the following statements does <u>NOT</u> describe a benefit from using test tools?</p> <ul style="list-style-type: none"> a) Test data preparation tools can “anonymize data while still maintaining the internal integrity of that data. b) Test execution tools enable the same tests to be repeated in many environments c) Test design tools can help the Test Analyst to choose the types of tests that are needed to obtain a targeted level of test coverage d) Test execution tools enable fewer tests to be run, which reduces costs and the efficiency of regression tests <p>Please select exactly 1 option</p>

No	Point	Question										
6.	2	<p>You are reviewing the following requirements specification document:</p> <table border="1"> <tr> <td colspan="2">Document: Req. spec 101-A</td> </tr> <tr> <td colspan="2">Object: Transaction screen</td> </tr> <tr> <td>Author: Susie Specifier</td> <td>Date written: 2019-03-15</td> </tr> <tr> <td>Version: 0.23</td> <td>System: Bookkeeping TA-AB1</td> </tr> <tr> <td>Subsystem: 2a15</td> <td>Use cases applicable to project? Yes</td> </tr> </table> <p>Description: 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. The field containing the detailed transaction information must be long enough to contain the name of the transaction counterparty (maximum 20 characters), 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. The layout of the Transaction screen is described in more detail in a separate document.</p> <ul style="list-style-type: none"> • 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 year. • More details about the performance requirements can be found in a separate performance requirements specification document. <p>The following is the checklist you are using for this review:</p> <ol style="list-style-type: none"> 1. Is each requirement testable? 2. Does each requirement have acceptance criteria listed? 3. Does each requirement have a defined priority level? 4. Are the requirements uniquely identified? 5. Is the specification version handled? 6. Is there traceability visible from each requirement to the business/marketing requirements? 7. Is there traceability between the requirements and the use cases (if applicable)? <p>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?</p> <p>a) 4, 6, 7 b) 4, 5, 6 c) 1, 2, 3 d) 3, 5, 7</p> <p>Please select exactly 1 option</p>	Document: Req. spec 101-A		Object: Transaction screen		Author: Susie Specifier	Date written: 2019-03-15	Version: 0.23	System: Bookkeeping TA-AB1	Subsystem: 2a15	Use cases applicable to project? Yes
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No	Point	Question
7.	3	<p>An e-commerce company has started a project to implement an electronic trading platform that allows traders a direct access to Fixed Income OTC (over-the-counter) markets, called B-OTC.</p> <p>Using B-OTC, traders will be able to submit orders online to these markets to get a faster order execution. B-OTC will process an order through different phases:</p> <ul style="list-style-type: none"> - A validation phase of the order - A price determination phase where several markets are examined looking for the best price - An execution phase where the order is completed <p>The requirements specification for B-OTC is very clear, detailed, and exhaustive. B-OTC must be compliant to several regulations and an audit of the tests is mandatory.</p> <p>The testers are domain experts without specific knowledge of formal testing.</p> <p>Based only on the given information, which of the following statements best describes the level of detail and documentation required for the test cases in this scenario?</p> <ul style="list-style-type: none"> a) High-level test cases should be written without spending time on documentation. Traceability should be assured by using test case naming conventions b) Low-level test cases should be written because the testers are domain experts without a proper knowledge of formal testing c) Low-level test cases should be written with detailed test procedures and documentation. Traceability from the low-level test cases to the requirements should be also assured d) High-level test cases should be written because requirements specification for B-OTC is very clear, detailed, and exhaustive <p>Please select exactly 1 option</p>

No	Point	Question
8.	1	<p>You work in Agile software development in the telecommunications industry. The application develops a new interface to allow customers to modify their mobile phone plan directly via the web application. You are performing system tests and work particularly on the screen used to change the mobile phone plan.</p> <p>The user story you are testing is: US-34: As a customer, I want to be able to select a new mobile phone plan online so that I can adapt it to my needs.</p> <p>As part of these tests, you and the product owner invite a business expert to perform an exploratory test on this screen and indicate if he has any comments on whether proposed solution allows him to make all the possible changes. What kind of test are you performing?</p> <ul style="list-style-type: none"> a) Adaptability testing b) Functional appropriateness testing c) Functional correctness testing d) Accessibility testing <p>Please select exactly 1 option</p>
9.	1	<p>Which of the following statements does <u>NOT</u> describe the use of classification trees to support black-box test techniques?</p> <ul style="list-style-type: none"> a) Classification trees support the identification of rules to be used in a decision table b) Classification trees support the identification of boundary values c) Classification trees support pairwise testing d) Classification trees support the identification of equivalence partitions <p>Please select exactly 1 option</p>

No	Point	Question
10.	3	<p>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.</p> <p>Which TWO of the following test techniques would together give the best chance of achieving acceptable test coverage in the available time frame?</p> <ul style="list-style-type: none"> a) Equivalence partitioning b) Boundary value analysis c) State transition testing d) Use case testing e) Classification tree <p>Please select exactly 2 options</p>
11.	1	<p>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. Which of the following does NOT qualify as an interoperability failure?</p> <ul style="list-style-type: none"> a) Passwords are truncated on some browsers b) 5% of the websites do not run on a specific operating system c) Saving the passwords becomes too complicated for some users d) Passwords are not saved for all websites which integrate with the component <p>Please select exactly 1 option</p>

No	Point	Question
12.	1	<p>Which of the following statements regarding test implementation activities is <u>INCORRECT</u>?</p> <ul style="list-style-type: none">a) If a risk-based test strategy is being used, risk priority order may dictate the execution order for the test casesb) Test Analysts may create data to be used with keyword-driven test automationc) When creating the test execution schedule, manual and automated test execution are considered to be independent activitiesd) Test Analysts must verify the procedures that gather data for evaluating current status against exit criteria <p>Please select exactly 1 option</p>

Sample Exam

No	Point	Question
13.	3	<p>The IT department of insurance company SecureLife has started a project IQ (Improved Quality) to implement a new health insurance application.</p> <p>The intention is 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.</p> <p>In the new application, it will be possible to register all relevant information about the employees, such as their age, health conditions, etc. The project must also fulfill the demands of the people calculating their insurance premium, actuaries and the demands from public legislation.</p> <p>The project team for IQ have testers who are business users with lots of domain knowledge but without much formal test training.</p> <p>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 calculator to calculate insurance and possible bonus deductions based on age and different health parameters. This application will also allow individual customers to order Health Insurance Products online.</p> <p>The new project HIPPOS application will be developed and tested by SecureLife's Agile development team, which have worked together with the marketing department for the last three years, developing marketing web applications. The Agile team consists of well-trained testers and developers. They have implemented test automation for regression testing, and they have check-lists of common defects and common security problems which they use in their retrospectives.</p> <p>As senior Test Analyst in SecureLife you have been asked to suggest options for the two projects, IQ and HIPPOS, regarding the level of detail and documentation required for test cases in the two projects.</p> <p>Which TWO of the following are the BEST options?</p> <ul style="list-style-type: none"> a) In project HIPPOS the test cases should be written at a low level with documented procedures and audit trails b) In project IQ the test cases should be written at a high level. The testers are business users, and they know their business rules and calculations so no need for detailed documentation c) In project IQ the test cases should be written at a low level with documented procedures and traceability to requirements d) In both project IQ and HIPPOS the test cases must be written as low-level test cases, with thorough documentation and detailed procedures e) In project HIPPOS the test cases should be written at a high level allowing the testers flexibility in varying the details to achieve higher coverage <p>Please select exactly 2 options</p>

No	Point	Question
14.	1	<p>Assume you work for a company that has developed software to help users trade currencies.</p> <p>A new version of the software is being developed. The main feature of this version is the ability to calculate different amounts of commission depending on the volume of the trades. In addition, different categories of users (beginner, intermediate, expert) are defined, and different functions are provided to them according to their category.</p> <p>You are the Test Analyst responsible for creating functional suitability tests.</p> <p>Which TWO of the following statements correctly defines the level in the software development lifecycle at which functional suitability tests should be performed earliest?</p> <ul style="list-style-type: none"> a) Testing the appropriateness of functions assigned to different user categories should be performed during acceptance testing b) Required coverage of high-level business processes should be determined for system integration testing c) Testing that commissions have been calculated correctly for high-volume trades should be performed during system testing d) Testing that commissions have been calculated correctly for low-volume trades should be performed during component testing e) The interoperability of the new functions with other trading systems should be conducted in system testing <p>Please select exactly 2 options</p>

No	Point	Question
15.	2	<p>A project to develop a foreign exchange Automated Teller Machine for an airport has been planned and a risk assessment has shown that there are 3 key risks:</p> <ul style="list-style-type: none"> • 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. • Response times 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. • Accuracy of calculations could lead to cumulative errors. This has been assessed as low likelihood with high impact. <p>The test strategy currently requires performance testing during system testing, usability testing during User Acceptance Testing (UAT) and functional correctness tests at every test level. The project is under time pressure.</p> <p>Which one of the following possible risk mitigation actions should have highest priority?</p> <p>a) Involve visually impaired users in the review of the user interface design 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) Defer usability testing until UAT and recruit visually impaired testers to join the UAT team</p> <p>Please select exactly 1 option</p>
16.	1	<p>Which of the following statements is TRUE with respect to when the test analyst should become involved during different software development lifecycle models?</p> <p>a) In sequential V-model projects the test analyst should start test analysis concurrently with coding b) In sequential V-model projects the test analyst should start test analysis concurrently with requirement specification c) In Agile software development the test analyst should start test analysis and design concurrently with coding d) There are no differences in the moment of involvement for test analysts for the various software development lifecycles</p> <p>Please select exactly 1 option</p>

No	Point	Question
17.	1	<p>You work as a Test Analyst in the team developing a system for managing rented electric scooters.</p> <p>The system consists of the following three parts:</p> <ol style="list-style-type: none"> 1) A client application for mobile phones 2) Scooter monitoring 3) A server application that supervises the work of the whole <p>The most important target for your team is to ensure the cooperation between modules.</p> <p>Based on this description only, which quality characteristic is the most important for you, and should be tested first?</p> <ol style="list-style-type: none"> a) Performance b) Security c) Usability d) Interoperability <p>Please select exactly 1 option</p>
18.	1	<p>Which one of the following describes typical characteristics of defect-based test techniques?</p> <ol style="list-style-type: none"> a) Defect-based techniques are based on the analysis and classification of previously found defects b) Defect-based techniques are a sub-category of black-box test techniques c) Defect-based techniques are mainly used at the component test level d) Defect-based techniques concentrate on defects found during the analysis of the documentation of a system <p>Please select exactly 1 option</p>

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19.	3	<p>As a Test Analyst, you are testing the download functionality of a mobile application via the cellular network with the decision table testing technique.</p> <p>The specification states: “The download should only start if the cellular network connectivity is at least two bars strong and the mobile subscription has sufficient data volume available to download the file. In the borderline case of two bars connectivity, a buffer of at least 20 KB additional data volume is needed.”</p> <p>During test analysis, you have designed and successfully reviewed the following decision table:</p> <table border="1"> <thead> <tr> <th>ID</th> <th>Conditions</th> <th>R1</th> <th>R2</th> <th>R3</th> <th>R4</th> <th>R5</th> </tr> </thead> <tbody> <tr> <td>C1</td> <td>Mobile cellular connection strength</td> <td>< 2 bars</td> <td>>= 2 bars</td> <td>2 bars</td> <td>2 bars</td> <td>>= 3 bars</td> </tr> <tr> <td>C2</td> <td>Data volume available – file size</td> <td>-</td> <td>< 0 KB</td> <td>>= 0 KB AND < 20 KB</td> <td>>= 20 KB</td> <td>>= 0 KB</td> </tr> <tr> <td colspan="7">Actions</td> </tr> <tr> <td>A1</td> <td>Download the file</td> <td>-</td> <td>-</td> <td>-</td> <td>X</td> <td>X</td> </tr> <tr> <td>A2</td> <td>Message “Insufficient data volume available”</td> <td>-</td> <td>X</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>A3</td> <td>Message “Insufficient connectivity”</td> <td>X</td> <td>-</td> <td>X</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p>You are designing a test suite that should cover all five decision rules. Which one of the following statements about a test suite for this specification covering all five rules is CORRECT?</p> <ol style="list-style-type: none"> The test suite should contain at least three different test cases with connection strength = 2 bars which cover the three possible expected outcomes respectively: A1, A2, and A3 The test data should contain at least two files of different sizes: one greater than or equal to 20 KB and one less than 20 KB The test cases should have two inputs: mobile cellular connection strength and the difference between the data volume available and the file size Any low-level test case with an input consisting of connection strength, data volume available and a file to be downloaded will cover exactly one rule of the decision table <p>Please select exactly 1 option</p>	ID	Conditions	R1	R2	R3	R4	R5	C1	Mobile cellular connection strength	< 2 bars	>= 2 bars	2 bars	2 bars	>= 3 bars	C2	Data volume available – file size	-	< 0 KB	>= 0 KB AND < 20 KB	>= 20 KB	>= 0 KB	Actions							A1	Download the file	-	-	-	X	X	A2	Message “Insufficient data volume available”	-	X	-	-	-	A3	Message “Insufficient connectivity”	X	-	X	-	-
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A3	Message “Insufficient connectivity”	X	-	X	-	-																																													

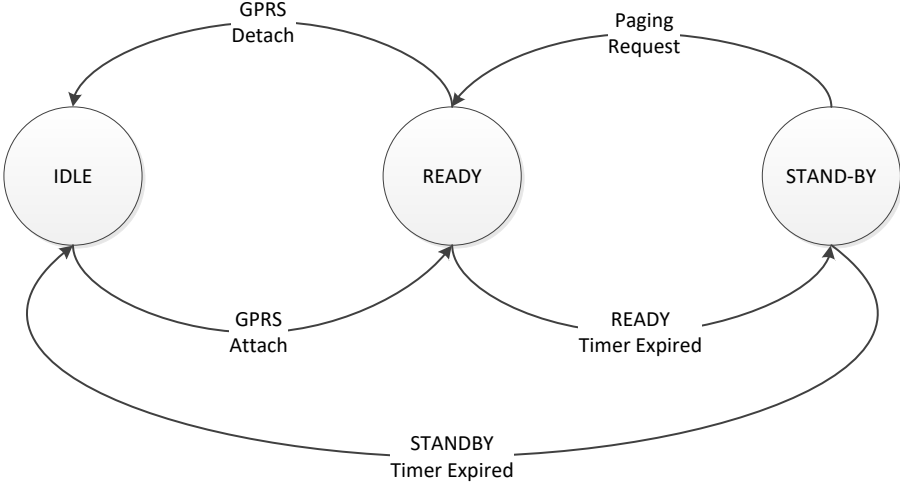
No	Point	Question
20.	3	<p>You are a Test Analyst working on a brand-new project.</p> <p>The customer is a state social welfare administration that wants to improve its website. The website will contain information, news, and documentation on social welfare. It will allow any citizen to interact online to view their current status as well as ongoing and past reimbursements.</p> <p>A team of business analysts, requirement engineers and user experience specialists have worked with the client to gather a comprehensive list of the requirements for the new website, based on the existing website, new needs, new best practices, and user feedback.</p> <p>The project follows the V-model as software development lifecycle. The requirements have been reviewed and approved by all the stakeholders. You are now about to start the test design based on requirements and a draft of detailed specifications.</p> <p>Here is a selection of some requirements:</p> <ul style="list-style-type: none"> - R003 – The entire website must be accessible to users with visual disabilities, according to WCAG 2.0. - R004 – The website must work properly on the devices presently utilized by users of the existing website, covering at least 80% of these users. - R005 – The response time of the website must not exceed 5 seconds under the load created by 5000 simultaneous users. - R006 – The new system must keep all the non-technical data used in the previous system. - R007 – Only the owner and authorized state agents must be able to access personal data in the system. <p>Which of the requirements above should you, according to your responsibilities, consider for your test design?</p> <p>a) R003, R004 b) R003, R004, R007 c) R003, R005, R006 d) R004, R006, R007</p> <p>Please select exactly 1 option</p>

No	Point	Question
21.	3	<p>A company has set up an employee wellness program and combined it with the premium for health insurance.</p> <p>The program has the following rules:</p> <ol style="list-style-type: none">1) Employees who consume 20 units or less of alcohol per week get \$30 off their payment2) Employees who fill in a "health risk assessment" will be rewarded with a \$25 reduction in payment.3) Employees who participate in a yearly health control at the company:<ol style="list-style-type: none">A. Receive a \$50 reduction in their payment for having a BMI of 27.5 or less, and a \$25 reduction for having a BMI below 30;B. Non-smokers receive an additional \$50 reduction in their payment;C. Smokers who have joined a stop-smoking class receive a \$25 reduction;D. Smokers who have not joined a stop-smoking class pay an additional premium of \$75. <p>How many test cases are needed to achieve 100% test coverage of equivalence partitions of the valid input parameters, when testing this specification by applying the equivalence partitioning test technique?</p> <ol style="list-style-type: none">a) 12b) 5c) 3d) 4 <p>Please select exactly 1 option</p>

No	Point	Question																																
22.	3	<p>TS is a skills portal which is made available to all IT professionals in a company.</p> <p>Individual IT professionals first discuss their training needs with their manager and as a result may receive a voucher from the manager for any of the course types provided at the company. The IT professional uses TS and their voucher to select a specific course and make a reservation.</p> <p>USE CASE: COURSE REGISTRATION Use Case ID: UC-15504 Purpose: Enable IT professionals to select and reserve a course for which they have been given a voucher. Actors: IT Professional (ITP); TS Skills Portal (SP) Pre-conditions: none</p> <p>Main behavior:</p> <table border="1"> <thead> <tr> <th>Step</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>The ITP launches SP.</td> </tr> <tr> <td>2</td> <td>SP displays its home page is show and requests a voucher code from the ITP</td> </tr> <tr> <td>3</td> <td>The ITP enters the voucher code (Exception E1)</td> </tr> <tr> <td>4</td> <td>SP lists the dates, locations, and current number of registered participants for the course indicated in the voucher code. (Exception E2)</td> </tr> <tr> <td>5</td> <td>The ITP selects a date and location</td> </tr> <tr> <td>6</td> <td>SP shows an overview of the selected course's contents</td> </tr> <tr> <td>7</td> <td>The ITP confirms selection of this course by pressing the "Register" button</td> </tr> <tr> <td>8</td> <td>SP places the ITP onto the list of participants and a message shown "You are registered for the course". SP updates the participants list.</td> </tr> <tr> <td>9</td> <td>The ITP logs out</td> </tr> </tbody> </table> <p>Alternative behavior:</p> <table border="1"> <thead> <tr> <th>Step</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>3a</td> <td>The ITP may log out from the application's home page</td> </tr> <tr> <td>8a</td> <td>If the course already has 12 participants SP places the ITP onto a waiting list and a message shown "you are on the waiting list". SP updates the waiting list.</td> </tr> </tbody> </table> <p>Exceptions:</p> <table border="1"> <thead> <tr> <th>Exception</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>E1</td> <td>If an invalid voucher code is entered, SP shows a message "Voucher not known – please try again" is issued. SP returns to the home page (step 2).</td> </tr> <tr> <td>E2</td> <td>If no courses are available SP shows a message "sorry- no courses available – please log out and talk to your manager ". SP returns to the home page (step 2)</td> </tr> </tbody> </table> <p>How many test cases are required to achieve the MINIMUM coverage for this use case?</p> <p>a) 1 b) 2 c) 4 d) 3</p> <p>Please select exactly 1 option</p>	Step	Action	1	The ITP launches SP.	2	SP displays its home page is show and requests a voucher code from the ITP	3	The ITP enters the voucher code (Exception E1)	4	SP lists the dates, locations, and current number of registered participants for the course indicated in the voucher code. (Exception E2)	5	The ITP selects a date and location	6	SP shows an overview of the selected course's contents	7	The ITP confirms selection of this course by pressing the "Register" button	8	SP places the ITP onto the list of participants and a message shown "You are registered for the course". SP updates the participants list.	9	The ITP logs out	Step	Action	3a	The ITP may log out from the application's home page	8a	If the course already has 12 participants SP places the ITP onto a waiting list and a message shown "you are on the waiting list". SP updates the waiting list.	Exception	Action	E1	If an invalid voucher code is entered, SP shows a message "Voucher not known – please try again" is issued. SP returns to the home page (step 2).	E2	If no courses are available SP shows a message "sorry- no courses available – please log out and talk to your manager ". SP returns to the home page (step 2)
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No	Point	Question
23.	1	<p>Which TWO of the following statements define types of defect you would <u>NOT</u> typically consider in portability testing?</p> <ul style="list-style-type: none"> a) Software cannot be installed for particular configurations b) Incorrect data exchange between interacting components c) An application does not function correctly in all intended target environments d) Users with disabilities cannot interact with the application e) Certain software components within a system cannot be exchanged for others <p>Please select exactly 2 options</p>
24.	1	<p>Which of the following statements <u>BEST</u> explains experience-based testing?</p> <ul style="list-style-type: none"> a) If the testers are experienced and have good knowledge of the system under 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 b) If checklists are used, experience-based testing can be more systematic and efficient and can replace black-box test techniques c) Experience-based techniques rely on the tester's knowledge and experience and can therefore be used to increase the coverage as the tester knows which areas need more testing d) 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 <p>Please select exactly 1 option</p>
25.	2	<p>You are a Test Analyst on a new project. The requirements documents are on a very high level, containing few details 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 TWO of the options below define what you will need or will use for these tasks?</p> <ul style="list-style-type: none"> a) Ask end users to execute some ad-hoc testing and note down their actions for future use as exploratory sessions b) Record the results in email and send the email to the test manager and test lead c) Procure domain knowledge to be applied during the exploratory session d) 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 e) Use debriefing sessions with the test manager or a test lead to record the results of the test sessions <p>Please select exactly 2 options</p>

No	Point	Question														
26.	2	<p>Easytravel is a card which is used for paying for travels on buses. The user can store credit to the card at Easytravel Loading Machines and the system automatically deducts the travel fee when the user puts the card in the card reader at a bus station. You are a member of the Easytravel project team, and the following user story has been given to you for reviewing. USER STORY: Add credit to the EasyTravel card Priority: 1 As a bus passenger, I want to add credit to my EasyTravel card so that I can pay for bus rides using the card</p> <p>FEATURE</p> <table border="1"> <thead> <tr> <th>Action</th> <th>Acceptance Criteria</th> </tr> </thead> <tbody> <tr> <td>User puts the Easytravel card into a card reader on the Easytravel Loading Machine.</td> <td>The loading machine displays an option to top up funds on the card balance.</td> </tr> <tr> <td>Loading machine checks card credentials</td> <td>Card rejected if invalid</td> </tr> <tr> <td>User selects "top up card".</td> <td>Loading machine is ready</td> </tr> <tr> <td>User puts in one or more cash notes.</td> <td>The loading machine shows an increase to the card's balance according to note(s) entered.</td> </tr> <tr> <td>Loading machine contacts back-end system with update.</td> <td>Back-end system is updated</td> </tr> <tr> <td>User selects "exit".</td> <td>User is prompted to remove their Easytravel card.</td> </tr> </tbody> </table> <p>You are reviewing the user story above. Which TWO of the following are NOT fulfilled if this user story should be a good user story?</p> <ul style="list-style-type: none"> a) Is the story prioritized? b) Are the acceptance criteria defined and testable? c) Is the story written entirely from the view of the person who is requesting it? d) Does the story follow the commonly used format? e) Is the feature clearly defined and distinct? <p>Please select exactly 2 options</p>	Action	Acceptance Criteria	User puts the Easytravel card into a card reader on the Easytravel Loading Machine.	The loading machine displays an option to top up funds on the card balance.	Loading machine checks card credentials	Card rejected if invalid	User selects "top up card".	Loading machine is ready	User puts in one or more cash notes.	The loading machine shows an increase to the card's balance according to note(s) entered.	Loading machine contacts back-end system with update.	Back-end system is updated	User selects "exit".	User is prompted to remove their Easytravel card.
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No	Point	Question
27.	3	<p>A GPRS mobile device operates in one of three states: IDLE, STANDBY, and READY which behavior is depicted by the following state transition diagram.</p> <div style="text-align: center;">  <pre> graph TD IDLE((IDLE)) -- "GPRS Detach" --> READY((READY)) READY -- "GPRS Attach" --> IDLE READY -- "Paging Request" --> STANDBY((STANDBY)) STANDBY -- "READY Timer Expired" --> READY STANDBY -- "STANDBY Timer Expired" --> IDLE </pre> </div> <p>Considering only READY state, what is the amount of test cases required to achieve Round-trip coverage for this state?</p> <ul style="list-style-type: none"> <li>a) 4 <li>b) 3 <li>c) 7 <li>d) 6 <p>Please select exactly 1 option</p>

No	Point	Question
28.	2	<p>A business application is in the maintenance phase and several changes to the business logic have either already been implemented or are expected be implemented in the next release.</p> <p>Test automation is used to ensure that business cases are regression tested whenever a change is made. A keyword-driven approach is used for the test automation. Since the last release some emergency fixes were necessary, and the test automation reports are now highlighting anomalies.</p> <p>Which TWO of the following steps should now be conducted by the Test Analyst?</p> <ul style="list-style-type: none">a) Ask the developer to manually step through the failed automated test with the same data to see if the failure is in the application itselfb) Update the keywords and data to reflect changes madec) If the cause of the anomaly cannot be found, remove the test from the automated regression testing packd) Analyze anomalies to determine if the problem is with the keywords, the input data, the automation script itself or with the application being testede) Modularize the automation scripts <p>Please select exactly 2 options</p>

Sample Exam

No	Point	Question
29.	3	<p>The following state transition diagram describes the behavior of a generic scheduler of an OS (Operating System).</p> <pre> graph TD Create((Create)) --> Ready((Ready)) Ready -- Run --> Running((Running)) Running -- Block --> Blocked1((Blocked1)) Blocked1 -- Unblock --> Ready Ready -- Suspend --> Blocked3((Blocked3)) Blocked3 -- Resume --> Ready Blocked1 -- Suspend --> Blocked2((Blocked2)) Blocked2 -- Resume --> Blocked1 Blocked2 -- Release --> Blocked3 </pre> <p>Assume a test always starts in the “Ready” state and ends when the system returns to the “Ready” state, so a test input consists of a sequence (“Ready”, event, next state, ..., event, “Ready”), where all states, except first and last one, are different than “Ready”.</p> <p>What is the MINIMUM number of tests needed to achieve 1-switch coverage?</p> <p>a) 3 b) 2 c) 4 d) 5</p> <p>Please select exactly 1 option</p>

No	Point	Question																																																
30.	3	<p>The Business Analysts have provided the following specification for the payment options of an internet store: “A registered customer can use any of the three payment options: credit card, instant transfer, and direct debit payment. When using the credit card option, a valid credit card must be supplied at the time of payment. Direct debit is only available for purchase amounts up to 500 €. For non-registered customers, the only allowed payment option is instant transfer.”</p> <p>A Test Analyst has designed the following decision table that should contain rules for the possible combinations:</p> <table border="1"> <thead> <tr> <th>ID</th> <th>Conditions</th> <th>R1</th> <th>R2</th> <th>R3</th> <th>R4</th> </tr> </thead> <tbody> <tr> <td>C1</td> <td>Registered customer</td> <td>T</td> <td>T</td> <td>T</td> <td>F</td> </tr> <tr> <td>C2</td> <td>Credit card is valid</td> <td>T</td> <td>F</td> <td>-</td> <td>-</td> </tr> <tr> <td>C3</td> <td>Purchase amount <= 500 €</td> <td>T</td> <td>T</td> <td>F</td> <td>-</td> </tr> <tr> <td colspan="6">Actions</td> </tr> <tr> <td>A1</td> <td>Credit card option offered</td> <td>X</td> <td>-</td> <td>X</td> <td>-</td> </tr> <tr> <td>A2</td> <td>Instant transfer option offered</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>A3</td> <td>Direct debit option offered</td> <td>X</td> <td>X</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p>You are reviewing the decision table for completeness, correctness, and consistency. Which TWO of the following are CORRECT findings?</p> <ul style="list-style-type: none"> a) The rule R3 is not correct because it offers credit card payment to registered customers who don't have a valid credit card b) The value '-' (don't care) for condition C3 in rule R4 is incorrect, because if Amount <= 500€ is 'True', direct debit should be offered c) The table is inconsistent because for a registered customer with invalid credit card and a purchase amount > 500€ both rules R2 and R3 apply d) The table is incomplete because three Boolean conditions require $2^3 = 8$ rules e) The value '-' (don't care) for condition C2 in rule R4 should rather be a 'N/A' (not applicable) because the system has no information on credit cards for non-registered customers <p>Please select exactly 2 options</p>	ID	Conditions	R1	R2	R3	R4	C1	Registered customer	T	T	T	F	C2	Credit card is valid	T	F	-	-	C3	Purchase amount <= 500 €	T	T	F	-	Actions						A1	Credit card option offered	X	-	X	-	A2	Instant transfer option offered	X	X	X	X	A3	Direct debit option offered	X	X	-	-
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No	Point	Question
31.	1	<p>Which one of the following statements regarding quality sub-characteristics and the defects they target is correct?</p> <ul style="list-style-type: none"> a) Functional correctness testing involves detecting incorrect handling of data or situations b) Functional appropriateness may focus on the coverage of high-level business cases by the implemented functionality c) Functional reliability testing ensures that the functions are available when called d) Functional completeness testing discovers indications that the system will not be able to meet the needs of the user in a way that will be considered acceptable <p>Please select exactly 1 option</p>
32.	3	<p>You are working on a customer loyalty application for a restaurant. Customers earn points by spending money on food.</p> <p>There are four categories for awards that are based on the number of points earned.</p> <ul style="list-style-type: none"> • Casual: 1 - 40 points • Regular: 41 - 150 points • Frequent: 151 - 300 points • Elite: more than 300 points <p>Existing tests cases have already covered the point values 12, 150, 151, 152 and 301.</p> <p>Using two value boundary analysis, you need to achieve 100 percent coverage for the Regular and Frequent partitions.</p> <p>What is the percentage of boundary value coverage you have already achieved with existing test cases?</p> <ul style="list-style-type: none"> a) 75% b) 66% c) 50% d) 33% <p>Please select exactly 1 option</p>

No	Point	Question
33.	2	<p>You are a Test Analyst assigned to a project for the development of a new online banking application. You were asked to participate in the requirements review. For your individual preparation you are given a checklist to help you to check basic rules in requirements writing.</p> <p>The following is one of the requirements: R034 – Even a person unfamiliar with software applications must be able to make a bank transfer.</p> <p>The following is an extract of the checklist:</p> <ol style="list-style-type: none"> 1. The requirement must be testable 2. The requirement must have an identifier 3. The requirement must always show its version number 4. The requirement must show traceability to one or more business/marketing requirements <p>Without further information on this requirement, which of the items above are fulfilled?</p> <ol style="list-style-type: none"> a) Only item 1 b) All items c) Item 1 and 2 d) Only item 2 <p>Please select exactly 1 option</p>
34.	1	<p>Which of the following statements does NOT give a good reason why test cases should be reviewed and understood by stakeholders?</p> <ol style="list-style-type: none"> a) Developers review test cases written by testers to align their understanding of requirements with the testers' and to align component testing with system testing b) The test manager reviews the test cases to control the work of the test analyst and to create the organization's test strategy c) Testers review test cases written by other testers to ensure that the test cases are consistent, understandable, and executable by testers other than the author d) Customer and users review the test cases to verify them against requirements, business processes and business rules <p>Please select exactly 1 option</p>

No	Point	Question
35.	1	<p>When is functional appropriateness testing is usually conducted?</p> <p>a) During acceptance testing, especially alpha and beta testing b) During integration and system testing c) During component and integration testing d) During system and user acceptance testing</p> <p>Please select exactly 1 option</p>
36.	1	<p>Which of the following statements regarding usability testing is correct?</p> <p>a) Heuristic evaluation can be used to survey the users and find usability problems b) Usability can be verified by running a comparison with the existing unacceptable product c) The usability should be verified against the requirements and validated by the real users d) Validation of the usability requirements should be done after release to enable real users to participate</p> <p>Please select exactly 1 option</p>
37.	3	<p>A company offering house insurance policies has several policy options depending on the following factors:</p> <ul style="list-style-type: none"> • Building type: house, semi-detached, apartment building, cottage • Material: wood, concrete, brick, mixed • Location: city, suburb, countryside, wilderness <p>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 all pairs coverage?</p> <p>a) 16 b) 4 c) 12 d) 64</p> <p>Please select exactly 1 option</p>

No	Point	Question
38.	3	<p>The HeatWell mobile application shall enable homeowners to control and monitor the heating of their home.</p> <p>The following requirements have been identified as the most important for the HeatWell app: Requirement 1: The user must be provided with an interface with which they can easily set required heating times and temperatures and monitor the temperature in different parts of the house. Requirement 2: An efficiency function shall calculate the energy consumed and help the user to optimize their needs.</p> <p>Which TWO of the following test conditions would you consider to be the most appropriate for verifying the functional and/or non-functional quality characteristics of the stated requirements?</p> <ul style="list-style-type: none"> a) The user can install the app on an Android device b) Monitoring data can be displayed for the previous 30 days c) The efficiency function accurately calculates heat consumption d) The user can effectively set target temperatures with a minimum number of steps e) Energy consumption data can be saved on the HeatWell database server for IOS and Android devices <p>Please select exactly 2 options</p>
39.	3	<p>A new mobile app is to be developed for managing the membership of a soccer club which runs several teams.</p> <p>One of the key objectives of the club owners is to replace the outdated manual method required for registration of new members. The functionality of the app is to remain relatively simple because not all users will be familiar with modern user interfaces. The club owners have therefore placed emphasis on the ease with which users can navigate between the various screens and the usability of the application. An objective is also to manage the numbers of players who can register for one team. Limits are therefore to be enforced which may result in applicants being placed on a waiting list.</p> <p>Which TWO of the following test techniques would be MOST appropriate for testing the mobile app?</p> <ul style="list-style-type: none"> a) Decision table testing b) Boundary value analysis c) Pairwise testing d) Use case testing e) State transition testing <p>Please select exactly 2 options</p>

No	Point	Question
40.	3	<p>The marketing department of insurance company, SecureLife, has started a project called HIPPOS (Health Insurance Product Public Order Sales).</p> <p>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.</p> <p>The new application will also make it possible for individual customers to order health insurance products online.</p> <p>The new application created by project HIPPOS will be developed and tested by SecureLife's Agile development team. The Agile development team has worked together and with the marketing team 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.</p> <p>In Project HIPPOS the Product Owner from Marketing has presented the following user stories to the Agile team before the first release planning meeting</p> <ul style="list-style-type: none"> • US1: The Web health insurance calculator shall calculate insurance premiums and bonuses according to the rules of calculation described by the actuary and insurance calculation business section. • US2: The user interface of the HIPPOS application shall follow the same standards as the other marketing web applications and use a predefined setup of page frames and dialogs that have been used for the last two years. • US3: The Web applications shall support the latest 3 versions of the different types of web browsers Edge, Google Chrome, Firefox, and Safari. • US4: Security must be at the same level as for other marketing web applications. <p>The Agile team has been asked to prepare a test approach. The Product Owner asks the team to present their proposal for the use of test techniques at the release planning meeting.</p> <p>Which of the following proposals for the Agile team best supports the given scenario?</p> <ol style="list-style-type: none"> a) Use black-box techniques as the primary test techniques. For US1 state transition testing and boundary value analysis will also be used and exploratory testing will also be used in addition for US4 b) Use exploratory testing and defect-based testing as the primary test techniques. For US1 decision table testing will also be used. Adaptability testing for US3 and attack-based testing using a checklist will be used extra for US4 c) Use exploratory testing as the primary test technique. For US1 will also equivalence partitioning and boundary value analysis be used, and an additional black-box test technique will be used for US4 d) Use exploratory testing as the primary test technique. For US1 interoperability testing will also be used. Adaptability testing will be used for US3 and attack-based testing will also be used for US4 <p>Please select exactly 1 option</p>

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

Sample Exam