

# Sample Exam – Answers

## ISTQB® Agile Technical Tester (ATT)

**Exam ID: A**

Version 1.0

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International Software Testing Qualifications Board

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Exam Working Group 2019

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The ISTQB® Examination Working Group is responsible for this document.

## Acknowledgements

This document was produced by the ISTQB® Exam Working Group (EWG) and the ISTQB® Advanced Level Working Group (ALWG).

## Revision History

Version	Date	Remarks
0.1	July 10, 2019	
0.2	September 14, 2019	Changes some answers due to rephrasing of some sample questions
0.3	September 14, 2019	Changes with respect to finding from Beta Review
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## Introduction

### Purpose of this document

The sample questions, answer sets and associated justifications in this document have been created by a team of Subject Matter Experts and experienced question writers with the aim of assisting ISTQB® Member Boards and Exam Boards in their question writing activities.

These questions cannot be used as-is in any official examination, but they should serve as guidance for question writers. Given the wide variety of formats and subjects, these sample questions should offer many ideas for the individual Member Boards on how to create good questions and appropriate answer sets for their examinations.

### Instructions

The question and answer sets are organized in the following way:

- Learning Objective and K-level
- Question - including any scenario followed by the question stem (The question is contained in a separate document)
- Answer Set (The answer set is contained in the document)
- Correct answer – including justification of the answers

## Answers

Question	Correct Answer	Explanation / Rationale	Learning Objective (LO)	K-level	Number of Points
1.	a, b	<p>a) is right as the Epic could be easily transferred to a storyboard as a visual representation of the system.</p> <p>b) is right as the Epic could also be easily transferred to a story mapping.</p> <p>c) is wrong as there are not enough different users of the system to use personas to improve quality.</p> <p>d) is wrong as the epic is not big enough to use diagrams and there is nothing mentioned that diagrams are already in use.</p> <p>e) is wrong as the Epic is not big enough (e.g. number of stakeholders or interfaces, etc.)</p>	ATT-1.1.1-1	K4	3
2.	b, d	<p>a) Wrong, because a 'Storyboard' is neither the 'Agile task board' nor the 'Agile user story board'</p> <p>b) RIGHT, because Syllabus says 'Visualize groups of user stories related to a common area of the system (Themes) which can be considered for inclusion in the same iteration, as they will likely be touching the same piece of code'</p> <p>c) Wrong, because fancy answer</p> <p>d) RIGHT because Syllabus says 'Assist with identifying acceptance criteria for user stories and epics.'</p>	ATT-1.1.1-2	K2	1
3.	a	<p>a) is right as the acceptance criteria are following the INVEST criteria.</p> <p>b) is wrong as the acceptance criteria are following the INVEST criteria.</p> <p>c) is wrong as the scope is not as big as the scope of an Epic could be.</p> <p>d) is wrong as not always are non-functional acceptance criteria needed</p>	ATT-1.1.2	K4	3

Question	Correct Answer	Explanation / Rationale	Learning Objective (LO)	K-level	Number of Points
4.	c	<ul style="list-style-type: none"> <li>a) Wrong</li> <li>b) Wrong</li> <li>c) CORRECT (see syllabus 2.1.2)</li> <li>d) Wrong</li> </ul>	ATT-1.x	K1	1
5.	a	<ul style="list-style-type: none"> <li>a) CORRECT according to Syllabus 2.1.1.,</li> <li>b) Wrong because unit test can not be derived from use cases.</li> <li>c) Wrong during refactoring unit test must not change to ensure same system behaviour</li> <li>d) Wrong because unit test should be written in an “atomic” manner</li> </ul>	ATT-2.1.1-2	K2	1
6.	d	<ul style="list-style-type: none"> <li>a) Write additional test classes to test also other relevant aspects of the leap year calculation .</li> <li>b) Start to write code that covers other relevant aspects of the leap year calculation.</li> <li>c) Start to write code that makes fail this test case.</li> <li>d) Start to write code that makes pass this test case. In TDD you should write first test code for one special area, then write code that makes pass this test case. Then you should continue with the next small part. Therefore, D is right and all other answers are wrong</li> </ul>	ATT-2.1.1	K3	2
7.	b	<ul style="list-style-type: none"> <li>a) Wrong</li> <li>b) RIGHT because Syllabus says: ‘FIRST = Fast, Isolated, Repeatable, Self-Validating, Thorough’</li> <li>c) Wrong</li> <li>d) Wrong</li> </ul>	ATT-2.1.1-3	K2	1

Question	Correct Answer	Explanation / Rationale	Learning Objective (LO)	K-level	Number of Points
8.	a	<ul style="list-style-type: none"> <li>a) is right as it fulfills all requirements of the Gherkin language.</li> <li>b) Is wrong as there is an else that is not Gherkin format</li> <li>c) Is wrong as there are not enough details to develop and test this spec.</li> <li>d) Is wrong as the Given element of gherkin is missing.</li> </ul>	ATT-2.1.2	K3	2
9.	b	<ul style="list-style-type: none"> <li>a) NOT correct, because related to (B) 'Automated Test Suites' are less used. But Automated Testing is key to get reliable feedback in each of the 4 week iterations.</li> <li>b) CORRECT, because 'Automated Test Suites' are used to maximum degree, to generate reliable feedback in each of the 4 week iterations. Also 'Specification based manual testing' is used to maximum degree to cover critical features (not covered by automated tests). Manual Exploratory Testing is used in addition only.</li> <li>c) NOT correct, because related to (B) Manual Exploratory Testing dominates which is not adequate for testing a safety critical system.</li> <li>d) NOT correct, because related to (B) 'Automated Test Suites' are used less, so manual testing dominates, which is suboptimal for testing in a incremental-4-week iteration development approach</li> </ul>	ATT-2.2.1	K4	3
10.	a	<ul style="list-style-type: none"> <li>a) Is right as mentioned in table 1 on page 17 of the syllabus.</li> <li>b) Is wrong as non-functional tests are not mentioned in the syllabus.</li> <li>c) Is wrong as we are in a mission and safety critical system and risk level is high (see syllabus page 17, table 1).</li> <li>d) Is wrong as we are in a mission and safety critical system and risk level is high (see syllabus page 17, table 1).</li> </ul>	ATT-2.2.1-2	K4	3



Question	Correct Answer	Explanation / Rationale	Learning Objective (LO)	K-level	Number of Points
11.	a	a) is CORRECT according to Syllabus 2.2.2. b) Wrong, Using test charters in exploratory testing is used when a heuristic approach for writing and performing test sessions is needed. c) Wrong, exploratory testing shall also create insight into better test design, ideas for testing the product, ideas for improvement and so on. d) Wrong because a test basis to measure the coverage, does not exist in a quality good enough and a linkage between specification and test is hard to define	ATT-2.2.2-2	K2	1
12.	a	a) CORRECT b) The reason is not correct, although the fact stated is (we are unable to aintain writing detailed test cases in short iterations), nor are the benefits listed. c) Refactoring in general, is a way to clean up code in an efficient and controlled manner, by clarifying and simplifying the design of existing code, without changing its behavior. It is not specifically designed for test cases or testing, but is used by testers on their test cases for similar reasons. d) The process idenfiyed in the question is not correct. the correct process steps are: Identification, Analysis of impact, Refactor (Mutate), Re-Run, Evaluate.	ATT-2.3.1.2	K2	1
13.	a	a) Is right as Tosort should be written as ToSort. b) Is wrong as checkpoint 1 is ok. c) Is wrong as checkpoint 3 is ok. d) Is wrong as checkpoint 2 is not ok	ATT-2.3.2-1	K4	3

Question	Correct Answer	Explanation / Rationale	Learning Objective (LO)	K-level	Number of Points
14.	a	a) CORRECT according to Syllabus 2.1.1. b) Wrong because the execution of all existing tests is missing c) Wrong, this true for behavior driven development d) Wrong, TDD is developer focused and BDD is customer focused	ATT-2x	K1	1
15.	a	a) is CORRECT according to Syllabus 3.1.3., b) Is wrong the opposite is true. c) is wrong according to Syllabus 3.1.3. d) is wrong it can be done in an external team	ATT-3.1.3-1	K2	1
16.	a	a) RIGHT because Syllabus says: ‘an increased proportion of automated test coverage often leads to a greater degree of manual testing that follows reactive strategies since many of the tests that can be prepared upfront will be automated’ b) Wrong c) Wrong d) Wrong	ATT-3.1.3-2	K2	1
17.	a	a) CORRECT answer b) UT automation is indeed critical, but does not cover most of the code quality in agile projects. One must include also integration level test automation, and system level one and some manual tests has added value as well (done mainly as exploratory tests). c) Test Development time is the correct answer, and not Deployment time. d) Test Execution Time is a challenge of course, as increasing the test suite volume every sprint, creates a load of tests needed to be run and tested.	ATT-3.2.1.2	K2	1

Question	Correct Answer	Explanation / Rationale	Learning Objective (LO)	K-level	Number of Points
18.	a	<ul style="list-style-type: none"> <li>a) is CORRECT according to Syllabus 3.1.2.</li> <li>b) Wrong because this is true for data driven testing.</li> <li>c) Wrong, the opposite is true</li> <li>d) Wrong, the task should stay with one team member and not the entire team</li> </ul>	ATT-3	K1	1
19.	a	<ul style="list-style-type: none"> <li>a) is right as this is a stable product and the syllabus shows that on page.</li> <li>b) is wrong as there is no need to speed up test execution mentioned.</li> <li>c) is wrong as prioritization should be used to improve the quality of the test object and not the CI.</li> <li>d) is wrong as there is no indication that there is not enough time to execute all test cases</li> </ul>	ATT-4.1.1	K3	2
20.	c	<ul style="list-style-type: none"> <li>a) Wrong as TDD is unit test driven and BDD is executable test scenario driven</li> <li>b) Wrong as BDD relies on executable scenarios</li> <li>c) Correct according the glossary</li> <li>d) Wrong due to I and II in options</li> </ul>	ATT-2.3.1	K1	1
21.	a	<ul style="list-style-type: none"> <li>a) is right according the glossary</li> <li>b) is wrong due to self.checking and testable...</li> <li>c) is wrong due to focussed, stand-alone, timely.</li> <li>d) is wrong due to interactive, small-scope, test driven</li> </ul>	ATT-2.1.1.3	K1	1
22.	b	<ul style="list-style-type: none"> <li>a) is wrong due to II</li> <li>b) is right according the glossary</li> <li>c) is wrong due to III and V. Granularity of tset charter is important and should not be too small.</li> <li>d) is tester mind should be in control, he should decide and structure what areas to test and prior experience is important otherwise tester may wander in unnecessary test areas.</li> </ul>	ATT-2.2.2	K4	3

Question	Correct Answer	Explanation / Rationale	Learning Objective (LO)	K-level	Number of Points
23.	d	a) Wrong b) Wrong c) Wrong d) is CORRECT according the syllabus 2.3.1	ATT-2.3.1	K2	1
24.	c	a) Wrong as temptation to save time and money may lead to easy rather than robust design b) Wrong as temptation to save time and money may lead to easy rather than robust design c) is right according the syllabus 2.3.2. d) Wrong as temptation to save time and money may lead to easy rather than robust design	ATT-2.3.2-1	K4	3
25.	d	a) is wrong as all mentioned approaches or processes support CI b) is wrong as all mentioned approaches or processes support CI c) is wrong as all mentioned approaches or processes support CI d) is right a accordingly the glossary	ATT-2.3.2-2	K4	3
26.	d	a) is wrong because interface to 3 <sup>rd</sup> party software component is a good candidate for service virtualization b) is wrong as benefits of service virtualization includes II, III and IV c) is wrong d) is right according the glossary.	ATT-4.2.1	K2	1

Question	Correct Answer	Explanation / Rationale	Learning Objective (LO)	K-level	Number of Points
27.	a	a) CORRECT answer b) Wrong (This should be numerical data, from closed-ended questions). c) this should be with a Open Ended questions and not Yes/No, which are Close-ended questions. d) This should be that the Qualitative Interview is a lot more effective than a quantitative query.	ATT-1.1.2-2	K2	1
28.	a	a) CORRECT answer b) Statement coverage and path coverage Analysis are incorrect c) Decision Coverage analysis are incorrect d) Path Coverage Analysis is incorrect	ATT-1.1.2.2	K2	1
29.	c,d	a) Wrong, because the order of 'User Stories' within the 'Story Map' is only an indicator for test priorities, but does not define test priorities. b) Wrong, because fancy answer c) CORRECT because Syllabus says: 'The horizontal axis of the map represents the order of priority of each of the user stories, whilst the vertical axis represents the sophistication of the implementation.' d) CORRECT because Syllabus says: 'Determine the most basic functionalities of a system to distillate a smoke test' and in the same way all other levels of 'sophistication' can be checked by corresponding sets of acceptance test cases	ATT-1.1.1-2	K2	1

Question	Correct Answer	Explanation / Rationale	Learning Objective (LO)	K-level	Number of Points
30.	b,c	a) Wrong, because not primary criterly b) RIGHT because Syllabus says: ‘, a successful regression-averse approach focuses on continuous improvement and refactoring of created tests’ c) RIGHT because Syllabus says: ‘...maintainability, ... are critical’ d) Wrong, because fancy answer	ATT-3.1.3-2	K2	1
31.	a	a) is CORRECT according to Syllabus 1., b) is wrong because this is true for use cases c) is wrong this true for storyboards d) is wrong, this is true for personas	ATT-1.x	K1	1
32.	a,d	a) CORRECT see Syllabus 2.1.3 b) is wrong (customer oriented) c) Wrong, TDD is development oriented d) CORRECT see Syllabus 2.1.3 e) Wrong, TDD is development focused	ATT-2.1.3	K4	3
33.	c	a) Wrong (creation of several TCs to cover several scenaris is not the real and best solution) b) Adapting existing TC is not the good solution, a TDD based TC shuld be prepared looking at the flow keeping is as general as possible c) The TDD is trying to use as few as possible tc and get data d) Wrong, execute some TC is not the goal to check the TDD feasibility	ATT-3.1.1	K3	2

Question	Correct Answer	Explanation / Rationale	Learning Objective (LO)	K-level	Number of Points
34.	d	a) Keyword-driven does not check for data as main task b) An interpreter can understand the language but no external app should be executed, focus should remain within the TC (framework) c) No specific data should be used. d) CORRECT	ATT-3.1.2	K2	1
35.	b	a) Wrong : in unit test no full regression test possible to be executed b) CORRECT, see syllabus 3.2.1 c) Wrong : in unit test no full regression test possible to be executed d) Wrong : In a smoke test a full test cases execution is meaningless as it should check the main functionalities in a short time, after e.g. a new software installation	ATT-3.2.1	K2	1
36.	c	a) Wrong : execute on 7:00 in the morning is not exactly continuous testing b) Wrong : replacing the new software, without new build c) CORRECT, see syllabus 4.1 d) Wrong : replacing the new software, without new build	ATT-4.1.2	K2	1
37.	b	a) Wrong : it is not a closed system b) CORRECT, see syllabus 4.2 c) Wrong : a virtual service is not a physical system. d) Wrong : it is not a one-to-one replication of a server	ATT-4.2.1-2	K2	1

Question	Correct Answer	Explanation / Rationale	Learning Objective (LO)	K-level	Number of Points
38.	c, e	<p>This is negate question so c) and e) which are wrong w.r.t. CI definitin, are correct for this answer</p> <p>a) CORRECT : choice 1 in syllabus 4.1.1 b) CORRECT : choice 2 in syllabus c) Wrong: there is no predefined time, onlyconstraint is to complete before a new CI would start 4.1.1 d) CORRECT : choice 3 in syllabus 4.1.1 e) Wrong :depending on expected behaviour or what needs to be tested, the set of TC can be changed</p>	ATT-4.1.1	K3	2
39.	a, d	<p>a) CORRECT according the glossary b) Wrong because when code with defects and technical debt spreads, it becomes difficult, costly and time consuming to correct without negatively affecting other parts of the system c) Wrong because it is costly and time consuming to correct without negatively affecting other parts of the system d) CORRECT according the glossary</p>	ATT-2.3.2	K1	1
40.	b, d	<p>a) Wrong because a 'Storyboard' is not the 'Agile task board' nor the 'Agile user story board' b) CORRECT, syllabus says 'Visualize groups of user stories related to a common area of the system (Themes) which can be considered for inclusion in the same iteration, as they will likely be touching the same piece of code' c) Wong, because fancy answer d) CORRECT, syllabus says: 'Assist with identifying acceptance criteria for user stories and epics.</p>	ATT-1.1.1-2	K2	1