Sample Exam: Answers

ISTQB® Technical Test Analyst Syllabus Advanced Level

Exam ID: A

Version 2019 1.0

International Software Testing Qualifications Board



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2.0	October 5th . 2019	EWG - Complete Exam Set document.
V2019 1.0	December, 2019	Revisions made by AELWG to enable launch
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		exam.

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Introduction

The sample exam answers and associated justifications in this document have been created by a team of subject matter experts of Exam Working Group with the aim of assisting ISTQB® Member Boards and Exam Boards in their question writing activities.

The questions and their associated answers 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, they should offer many ideas for the individual Member Boards on how to create appropriate answer sets for their examinations. Please refer to the separate sample questions document for the questions that correspond to the answers.

The answers are organized in the following way:

- Question number
- Correct answer
- Justification / Rationale
- Learning Objective number
- K-level
- Number of points

An answer key is provided to give an overview of all the above information with the exception of the justification / rationale.



Answer Key

Question Number	Correct Answer	LO	K-Level	Points
1	a,b	TTA-1.2.1	K2	1
2	d	TTA-1.2.2	K2	1
3	а	TTA-2.2.1	K3	2
4	С	TTA-2.3.1	K3	2
5	С	TTA-2.4.1	K3	2
6	а	TTA-2.5.1	К3	2
7	b	TTA-2.6.1	K3	2
8	a, c	TTA-2.7.1	K2	1
9	d	TTA-2.8.1	K4	3
10	С	TTA-2.8.1	K4	3
11	b	TTA-3.2.1	К3	2
12	d	TTA-3.2.1	К3	2
13	а	TTA-3.2.2	K2	1
14	С	TTA-3.2.3	K3	2
15	b,d	TTA-3.2.3	K3	2
16	b	TTA-3.2.4	K2	1
17	С	TTA-3.3.1	K3	2
18	С	TTA-4.2.1	K4	3
19	a,d	TTA-4.2.1	K4	3
20	а	TTA-4.2.2	K3	2
21	b	TTA-4.2.2	K3	2
22	С	TTA-4.2.3	K2	1
23	а	TTA-4.2.3	K2	1

Question Number	Correct Answer	LO	K-Level	Points
24	С	TTA-4.2.4	K3	2
25	b	TTA-4.2.4	K3	2
26	b,e	TTA-4.3.1	K2	1
27	а	TTA-4.4.1	K2	1
28	a,d	TTA-4.5.1	K2	1
29	d	TTA-4.6.1	K2	1
30	b	TTA-4.7.1	K2	1
31	С	TTA-5.1.1	K2	1
32	С	TTA-5.2.1	K4	3
33	а	TTA-5.2.1	K4	3
34	С	TTA-5.2.2	K4	3
35	b	TTA-5.2.2	K4	3
36	b, e	TTA-6.1.1	K2	1
37	а	TTA-6.1.2	K2	1
38	d	TTA-6.1.3	K2	1
39	c, d	TTA-6.1.4	K3	2
40	С	TTA-6.2.1	K2	1
41	b	TTA-6.2.2	K2	1
42	d, e	TTA-6.2.3	K2	1
43	а	TTA-6.2.4	K2	1
44	а	TTA-6.2.5	K2	1
45	d	TTA-6.2.6	K2	1
		•	•	•



Question	Correct Answer	Explanation / Rationale	Learning Objective (LO)	K-level	Number of Points
Answer 1	a, b	 a) Correct: see syllabus section 1.2. b) Correct: see syllabus section 1.2. c) Incorrect: accuracy of the computations is a concern for the TA, not the TTA. d) Incorrect: budgetary issues should be handled by the TM, not the TTA. e) Incorrect: high change rates in business use cases affect the functionality testing. 	TTA-1.2.1	K2	1
Answer 2	d	 a) Incorrect: the TA would be expected to work with this group of people. b) Incorrect: the TA would be expected to work with this group of people. c) Incorrect: the TA would be expected to work with this group of people. d) Correct: per the syllabus. The TTA is expected to work with the technical people on the project, including developers. 	TTA-1.2.2	K2	1
Answer 3	а	 a) Correct. The three test cases are defined by the following inputs: Sufficient water, milk, low fat, sugar Sufficient water, milk, not low fat, sugar or not sugar Insufficient water b) Incorrect c) Incorrect d) Incorrect 	TTA-2.2.1	К3	2



Answer 4	С	a) Incorrect b) Incorrect c) Correct: the following conditions ensure that all decision	TTA-2.3.1	K3	2
		outcomes are tested: 1) A, B 2) A, not B 3) not A, C 4) not A, not C. d) Incorrect			
Answer 5	C	 a) Incorrect: covers the outcomes but not the atomic conditions that affect the decision outcome. b) Incorrect: does not sufficiently cover the atomic conditions affecting the decision outcome. c) Correct: this answer provides the following: (T or F) + T (T or F) + F (F or T) + T This tests all values for the atomic conditions as well as all outcomes with the minimum number of tests. d) Incorrect: does not sufficiently cover the atomic conditions affecting the decision outcome. 	TTA-2.4.1	K3	2
Answer 6	a	 a) Correct: multiple condition testing requires testing the entire truth table (all combinations of true and false possible). This requires all conditions provided above to be tested. b) Incorrect c) Incorrect d) Incorrect 	TTA-2.5.1	K3	2
Answer 7	b	 a) Incorrect: 3 and 5 results in the same path. b) Correct: path coverage requires that the statement evaluates to true and to false. 2 will give you False and 3 will give you True. c) Incorrect: 1 and 3 results in the same path. d) Incorrect: only tests the TRUE, not the FALSE 	TTA-2.6.1	K3	2



			I :		
Answer 8	a, c	 a) Correct: this is listed under types of defects found in the syllabus section 2.7. 	TTA-2.7.1	K2	1
		b) Incorrect: this is targeted by maintainability testing.			
		c) Correct: this is listed under types of defects found in the			
		syllabus section 2.7.			
		d) Incorrect: this is not listed in the targeted types of defects in the syllabus section 2.7.			
		e) Incorrect: this is not listed in the targeted types of defects			
		in the syllabus section 2.7.			
Answer 9	d	 a) Incorrect: this is the same as simple MC/DC as decision coverage is subsumed by MC/DC. 	TTA-2.8.1	K4	3
		b) Incorrect: this is the same as decision coverage as			
		statement coverage is subsumed by decision coverage.			
		Decision coverage, however, provides a lower level of			
		rigor than MC/DC or multiple condition coverage.			
		c) Incorrect: MC/DC is required for the highest-level			
		criticality software, but this scenario requires this level of			
		testing to exceed this, so this is not a correct option.			
		d) Correct: MC/DC is required for the highest-level criticality			
		software, which this presumably is since several thousand			
		spectators could be killed/injured. Multiple condition			
		coverage provides a higher level of coverage than MC/DC			
		·			
		and as this 'exceeds' that provided by MC/DC this is the correct option given the scenario.			



Answer	С	a) Incorrect: this is the same as simple MC/DC as decision	TTA-2.8.1	K4	3
10		 coverage is subsumed by MC/DC. See answer d below. b) Correct: Statement coverage with decision coverage is appropriate for the sequential actions and simple error handling routines. 			
		 c) Incorrect: MC/DC is for the highest-level criticality software. The user stories are business critical but only have sequential code and the simple error handling routines do not have the level of complexity to justify MC/DC coverage. d) Incorrect: MC coverage is not appropriate where simple error handling routines are to be tested. 			
Answer 11	b	 a) Incorrect b) Correct: the decision at line 10 will always be true as var1 will always be 5 at line 10, thus line 13 is unreachable. The loop at line 5 can only be left if var2 is 10 or more, but each time through the loop var2 is reset at line 7 back to 4 and only incremented by 1 in the loop at line 15, so it only ever reaches 5. c) Incorrect d) Incorrect 	TTA-3.2.1	К3	2
Answer 12	d	 a) Incorrect b) Incorrect c) Incorrect d) Correct: Cyclomatic complexity refers to the number of independent paths through a program. In the Easy program there are three independent paths. Path 1: (easy = false) Path 2: (easy = true, var1 = 5) Path 3: (easy = true, var1 not = 5) 	TTA-3.2.1	К3	2



Answer 13	а	a) Correct: Anomalies: total: used at line 6 before it is defined. commission_lo: defined at line 12 & no subsequent use b) Incorrect c) Incorrect d) Incorrect	TTA-3.2.2	K2	1
Answer 14	С	a) Incorrect b) Incorrect c) Correct: CC of 10 or over suggests this is worth addressing. CH of Low suggests this is worth addressing. CP of High suggests this is worth addressing. CO of I0% or less suggests this is worth addressing. RE of 9 or more suggests this is worth addressing. d) Incorrect	TTA-3.2.3	K3	2



Answer 15	b, d	 a) Incorrect: The code is clearly structured with control elements (e.g. loop, if-then-else). Static analysis is unlikely to identify any improvements to the control structure. b) Correct: Variable naming used in the program does not clearly indicate what the variable represents. Static analysis can apply naming convention rules which would identify these maintenance issues in the program and recommend that the variables be given names that are readable and conform to any applicable naming rules. c) Incorrect: There are no global variables defined and no other programs called. Coupling is not an improvement area. d) Correct: Static analysis identifies code which has a low amount of commenting compared to executable code. Since the program has no comments at all, this would be highlighted as an area for improving code maintainability. e) Incorrect: Static analysis can apply indentation rules but in the case of the TRICKY program there is adequate 	TTA-3.2.3	КЗ	2
Answer 16	b	 indentation. a) Incorrect: this is a use of call graphs, but is used for unit testing, not integration testing per the syllabus. b) Correct: see syllabus section 3.2.4 c) Incorrect: determining conditional and unconditional calls can be used for integration but using them for 	TTA-3.2.4	K2	1
		performance analysis has nothing to do with integration. d) Incorrect: call graphs don't detect memory leaks or possible areas for memory leaks.			



Answer 17	С	 a) Incorrect: dynamic analysis is not typically used for measuring response times (it requires instrumentation and so makes response time measurement impractical), but instead provides lower level performance metrics - these can be used for performance tuning. b) Incorrect: call graphs are generated by static analysis. c) Correct: dynamic analysis can identify memory access violations caused by a wild pointer and these could be causing the 'occasional' crashes. d) Incorrect: the scenario tells us that automated garbage collection was used, so it is unlikely programmers will need to release memory. May also be since memory leaks usually cause performance degradation and ultimately out-of-resource errors from the OS side. 	TTA-3.3.1	К3	2
Answer 18	С	 a) Incorrect: while subsequent releases of this system may be tested with real customer data, this is a new system and existing customer data is not available. b) Incorrect: there's no indication this is a distributed system. c) Correct: the bank is likely required by regulation to encrypt the customer financial data, which has testing implications. d) Incorrect: it's not clear whether this system will be used in-house (thus a production environment might be available) or sold to customers (thus production environments would likely not be available). 	TTA-4.2.1	K4	3



Answer 19	a, d	 a) Correct: The requirements stated by the customer for performance efficiency are vague and must be made more precise before the specialist tools team can implement the tests. b) Incorrect: A specialist tools team can be assumed to have issues of tool acquisition and training under control. c) Incorrect: A fully representative test environment has been made available. d) Correct: If components are distributed across different sites and organizations, the effort required to plan and coordinate the system integration tests may be significant and must be addressed in the test planning. e) Incorrect: Data security considerations are not mentioned in the scenario. 	TTA-4.2.1	K4	3
Answer 20	а	 a) Correct: fault-tolerance testing is part of reliability. b) Incorrect: we are not worried about response time, throughput, or resource utilization here. c) Incorrect: this risk does not relate to usability. d) Incorrect: a change of the type of network is not in question here. 	TTA-4.2.2	К3	2
Answer 21	b	 a) Incorrect: Adaptability testing checks whether a given application can function correctly in all intended target environments. b) Correct: Replaceability testing focuses on the ability of software components (such as databases) to be exchanged for others. c) Incorrect: Capacity testing relates to a performance efficiency characteristic. d) Incorrect: Co-existence testing considers the degree to which a test item can function satisfactorily alongside other independent products in a shared environment. 		К3	2



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Answer 22	С	 a) Incorrect (is true): see syllabus section 4.5.4 b) Incorrect (is true): see syllabus section 4.4.5 c) Correct (is false) security testing may be scheduled for the unit, integration and system testing levels (see syllabus section 4.3.2) d) Incorrect (is true) Since maintainability is built into the code and the documentation for each individual code component, maintainability can be evaluated early in the lifecycle without having to wait for a completed and running system. (see syllabus section 4.6) 	TTA-4.2.3	K2	1
Answer 23	a	 a) Correct: Because reliability tests often require use of the entire system, reliability testing is most commonly done as part of system testing b) Incorrect: Co-existence issues should be analyzed when planning the targeted production environment but the actual tests are normally performed after system and user acceptance testing have been successfully completed. c) Incorrect: Adaptability tests may be performed in conjunction with installability tests and are typically followed by functional tests to detect any faults which may have been introduced in adapting the software to a different environment. d) Incorrect: Replaceability may also be evaluated by technical review or inspection at the architecture and design levels, where the emphasis is placed on the clear definition of interfaces to potential replaceable components. 	TTA-4.2.3	K2	1
Answer 24	С	 a) Incorrect: this is a usability failure, not a security defect. b) Incorrect: this is a security feature, not a security defect. c) Correct: a typical security defect. d) Incorrect: if it is a defect at all, is a portability defect. 	TTA-4.2.4	K3	2



Answer	b	a) Incorrect: The test environment is fully representative and	TTA-4.2.4	K3	2
25		the data volume for a transaction is low. It can be			
		assumed that the increase in the data volumes from the			
		increased number of virtual users will not prevent realistic			
		loads from being generated for the scalability testing.			
		b) Correct: Scalability testing focuses on the ability of a			
		system to meet future efficiency requirements, which may			
		be beyond those currently required. The scenario states			
		that the current system's response to user inputs is just			
		below the maximum specified time, but that the number of			
		users is expected to double over the next 12 months.			
		There is a high risk that the planned scalability tests will			
		show that the system fails to meet future requirements for			
		expected numbers of users.			
		c) Incorrect: There is no indication in the scenario that the			
		system uses disk capacity resources. Compared to option			
		b this is less likely to be a source of defects.			
		d) Incorrect: During the scalability tests there is a possibility			
		that the system actually fails. However, the system has so			
		far run reliably and the expected increases in user			
		numbers is less likely to a cause system failure to occur			
		than the reduced response time problem described in			
		option b.			



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Answer 26	b, e	a) Incorrect: This relates to modifiability (see syllabus section 4.6.1)	TTA-4.3.1	K2	1
		b) Correct: see syllabus section 4.3.1			
		c) Incorrect: This relates to installability (see syllabus section 4.7.2)			
		d) Incorrect: This relates to functionality			
		e) Correct: see syllabus section 4.3.1			
Answer	а	a) Correct: Testing fault-tolerance is part of reliability testing,	TTA-4.4.1	K2	1
27		but it may be hard or even impossible to force faults to			
		occur in hardware or in the OS.			
		b) Incorrect: This relates to performance efficiency testing.			
		c) Incorrect: "Vulnerabilities" are associated with security			
		testing, not reliability testing.			
		d) Incorrect: This relates to performance efficiency testing.			
Answer	a, d	a) Correct: If the web servers are only dimensioned for a	TTA-4.5.1	K2	1
28		normal number of transactions, they will not scale to the maximum.			
		b) Incorrect: Availability of people to simulate a load is not a valid reason.			
		c) Incorrect: Re-using functional tests is not a reason to conduct performance tests			
		d) Correct: People may abandon the site if their enquiry responses take too long. This will damage business at the peak booking season.			
		e) Incorrect: Having skills in performance testing tools is good, but it is not a reason to conduct performance tests.			



Answer 29	d	 a) Incorrect: may be worthy of consideration but does not have higher priority over reusability. b) Incorrect: see answer a c) Incorrect: see answer a d) Correct: Reusability addresses the degree to which an asset can be used in more than one system, or in building other assets. This directly applies to the situation described. 	TTA-4.6.1	K2	1
Answer 30	b	 a) Incorrect: This is another aspect of portability which does not have a higher priority over adaptability. b) Correct: Adaptability may relate to the ability of the software to be ported to various specified environments by performing a predefined procedure. This directly applies to the situation described c) Incorrect: This is another aspect of portability which does not have a higher priority over adaptability d) Incorrect: Co-existence focusses on different applications running on the same environment 	TTA-4.7.1	K2	1
Answer 31	С	 a) Incorrect: this response indicates a willingness to cooperate in getting the review done but the analyst will be unable to make a full contribution without preparation and the review would therefore be less effective than it should be. b) Incorrect: this response flags up the lack of preparation time but does not insist on allowing time for adequate preparation. c) Correct. d) Incorrect: this response is accurate, but preparation would remove the obstacle. This is therefore not the best response when declining to attend a review. 	TTA-5.1.1	K2	1



Answer 32	С	 a) Incorrect: data caching helps performance, not memory use. b) Incorrect: transaction concurrency uses more memory. c) Correct: this would reduce unnecessary memory use but does have the possible problem of the delayed performance when the class is needed. d) Incorrect: connection pooling can help memory and performance, but the possible problem is in running out of connections, not in losing a process. 	TTA-5.2.1	K4	3
Answer 33	а	 a) Correct: Load balancing: will ensure that peak volumes can be handled by spreading the load to additional servers. b) Incorrect: Caching data may not guarantee that the rapidly changing currency rates are accurately shown in real-time. c) Incorrect: Object orientation practice does not target performance efficiency. d) Incorrect: Data replication may not guarantee that the constantly changing currency rates are accurately shown in real-time. 	TTA-5.2.1	K4	3
Answer 34	С	 a) Incorrect: the comment is correct. b) Incorrect: we have no way of knowing if there is an external library available. c) Correct: it is most likely the card will be Visa or MC so that check should be exercised first. d) Incorrect: the else handles all conditions not met by the if. 	TTA-5.2.2	K4	3



Answer	b	a) Incorrect: The variable "fileID" is checked before	TTA-5.2.2	K4	3
35	D	attempting to access the sales file (see lines 6,7 and 8)	11A-3.2.2	114	3
33		b) Correct: On line 21 the divisor "number_of_months" is not			
		checked for 0. This should have been checked before line			
		21 is executed.			
		c) Incorrect: comments and code are consistent			
		,			
		d) Incorrect: all declared variables (lines 1 and 2) are used in the code			
Answer	b, e	a) Incorrect: test data is normally the responsibility of the	TTA-6.1.1	K2	1
36		test analysts or business analysts.			
		b) Correct: see syllabus section 6.1.			
		c) Incorrect: tools read test cases.written with keywords and			
		call the appropriate test functions or scripts which			
		implement them. They do not create the scripts.			
		d) Incorrect: who performs test analysis and design (even of			
		automated test cases) is not decided by the TTA.			
		e) Correct: see syllabus section 6.1.			
Answer	а	a) Correct: keyword-driven tests are data-driven, too, but	TTA-6.1.2	K2	1
37		also have process-based keywords.			
		b) Incorrect: because it's backwards.			
		c) Incorrect: keyword-driven tests are easier to maintain			
		(due to the separation of roles).			
		d) Incorrect: due to the difficult in defining the correct			
_	_	architecture for the keyword-driven framework.			
Answer	d	a) Incorrect: elimination of duplication is a positive for a	TTA-6.1.3	K2	1
38		toolset.			
		b) Incorrect: ideally data should be exchanged with no			
		manual intervention.			
		c) Incorrect: using an IDE is often worthwhile as long as			
		tools 'fit' the IDE.			
		d) Correct: in syllabus section 6.1.1.			



Answer 39	c, d	a) Incorrect: the keywords are supposed to be about the	TTA-6.1.4	K3	2
39		business process supported by the application, not the test process.			
		b) Incorrect: the keywords are supposed to be about the			
		business process supported by the application, not the			
		test process.			
		 c) Correct: it is explicitly mentioned in the scenario as being capabilities of the application. 			
		d) Correct: it is explicitly mentioned in the scenario as being			
		capabilities of the application. e) Incorrect: might be a capability of the application, but it's			
		not mentioned in the scenario, so it's not the most likely			
		keyword on the list, and also since there was no mention			
		that the product charges its customers.			
Answer	С	a) Incorrect: Input checking can be done by mutating test	TTA-6.2.1	K2	1
40		inputs, but to test input checking the inputs would need to be mutated.			
		b) Incorrect: According to syllabus 6.2.1, 2nd paragraph, this is the task of the fault injection tools.			
		c) Correct: According to syllabus 6.2.1, 1st paragraph, this is			
		the task of the fault seeding tools.			
		d) Incorrect: According to syllabus 6.2.1, 3rd paragraph,			
		these tools are generally used by the technical test			
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Answer 41	b	 a) Incorrect: this is not an issue of more accurately measuring response times. 	TTA-6.2.2	K2]
41		b) Correct: in syllabus section 6.2.2.			
		c) Incorrect: the script needs to be changed to take account			
		of variability of different users and their transactions.			
		d) Incorrect: measurements need to be taken during			
		execution.			



Answer	d, e	a) Incorrect: describes an MBT tool.	TTA-6.2.3	K2	1
42		b) Incorrect: describes a debugger.			
		c) Incorrect: describes a fault seeding tool.			
		d) Correct: in syllabus section 6.2.3.			
		e) Correct: in syllabus section 6.2.3.			
Answer	а	a) Correct.	TTA-6.2.4	K2	1
43		b) Incorrect: MBT tools actually decrease the possible paths.			
		c) Incorrect: MBT tools provide a different view to			
		supplement functional testing.			
		d) Incorrect: the MBT tool 'engine' does enable some			
		execution threads to be saved (typically those related to			
		failed test cases).			



Answer 44	a	 a) Correct: (is false) The statement about the xUnit framework is incorrect, it only supports the programmer when automating: "Such a framework generates test objects for each class that is created, thus simplifying the tasks that the programmer needs to do when automating the component testing." (Syllabus 6.2.5, second paragraph, last sentence). b) Incorrect: (is true) The statement about component test tools is true - as in a), especially with Java (6.2.5, second paragraph). The statement about build automation tools is correct cf. Syllabus 6.2.5, 4th paragraph: "Build automatically triggered any time a component is changed." c) Incorrect: (is true) Syllabus 6.2.5, 2nd paragraph: "special test tools; these are collectively called xUnit frameworks. Such a framework generates test objects for each class that is created, thus simplifying the tasks that the programmer needs to do when automating the component testing. 4th paragraph: "Build automation tools often allow a new build to be automatically triggered any time a component is changed." d) Incorrect: (is true) The statement about component test tools is correct (see a) and b)). The statement about build automation tools is also correct (see justification for b)). 	TTA-6.2.5	K2	1
Answer 45	d	 a) Incorrect: A mobile simulator models the mobile platform's runtime environment. b) Incorrect: Applications compiled to be deployed and tested on an emulator are compiled into the actual bytecode that could be also used by the real device. c) Incorrect: Both simulators and emulators are useful in the early stage of development 	TTA-6.2.6	K2	1



d) Correct: Applications tested on a simulator are compiled		
into a dedicated version, which works in the simulator but		
not on a real device		



Answers to Alternative Questions

In the exam, certain questions may relate to different optional learning objectives. To ensure coverage of all learning objectives, the alternatives not considered in the sample exam are added below.

Question	Correct Answer	Explanation / Rationale	Learning Objective	K-Level	Number of Points
Alternative Question 26	С	 a) Correct: Static analysis may be used to identify security threats b) Correct: Involvement of developers may be useful for implementing particular security attacks c) Incorrect: Operational profiles are generally considered for performance efficiency testing d) Correct: Approvals for simulating a security attack must always be obtained 	TTA-4.3.2	K2	1
Alternative Question 27	c,e	 a) Incorrect: Maturity is a reliability sub-characteristic, but is not as relevant as C and E for the given reliability requirement. b) Incorrect: Fault tolerance is a reliability sub-characteristic, but is not as relevant as C and E for the given reliability requirement. c) Correct: Testing this reliability sub-characteristic will focus on the availability of specified interfaces from other systems. d) Incorrect: Capacity testing is a performance efficiency sub-characteristic. It is not relevant for covering the reliability requirement. e) Correct: Recoverability: Testing this reliability sub-characteristic will focus on the architecture's ability to recover from a failure. 	TTA-4.4.2	K2	1



Alternative Question 28	a,c	 a) Correct: Required hardware and network bandwidth needed to generate the maximum expected loads are critical planning considerations for estimating costs and enabling the maximum load to be simulated. b) Incorrect: Estimating the income expected from ticket sales is a marketing/sales activity. c) Correct: Acquiring representative user behavior patterns will enable representative loads to be simulated. d) Incorrect: Considering the modularity of the system under test is not relevant. e) Incorrect: Reviewing the system architecture may be a valuable task, but the question does not indicate that a web server replacement is planned. If this were the case, replaceability tests would be planned, not performance tests 		K2	1
Alternative Question 29/30	С	 a) Incorrect: this relates to adaptability b) Incorrect: this relates to modularity c) Correct d) Incorrect: this relates to resource utilization 	TTA-4.8.1	K2	1