

**Foundation Certificate
in
Software Testing
Practice Exam**

Time allowed: 1 hour

40 QUESTIONS

NOTE: Only one answer per question

Q1 A deviation from the specified or expected behaviour that is visible to end-users is called:

- a) an error
- b) a fault
- c) a failure
- d) a defect

Q2 Regression testing should be performed:

- v) every week
 - w) after the software has changed
 - x) as often as possible
 - y) when the environment has changed
 - z) when the project manager says
- a) v & w are true, x, y & z are false
 - b) w, x & y are true, v & z are false
 - c) w & y are true, v, x & z are false
 - d) w is true, v, x, y & z are false

Q3 IEEE 829 test plan documentation standard contains all of the following except

- a) test items
- b) test deliverables
- c) test tasks
- d) test specifications

Q4 When should testing be stopped?

- a) when all the planned tests have been run
- b) when time has run out
- c) when all faults have been fixed correctly
- d) it depends on the risks for the system being tested

Q5 Order numbers on a stock control system can range between 10000 and 99999 inclusive. Which of the following inputs might be a result of designing tests for only valid equivalence classes and valid boundaries?

- a) 1000, 50000, 99999
- b) 9999, 50000, 100000
- c) 10000, 50000, 99999
- d) 10000, 99999, 100000

Q6	<p>Consider the following statements about early test design:</p> <ul style="list-style-type: none">i. early test design can prevent fault multiplicationii. faults found during early test design are more expensive to fixiii. early test design can find faultsiv. early test design can cause changes to the requirementsv. early test design normally takes more effort <p>a) i, iii & iv are true; ii & v are false b) iii & iv are true; i, ii & v are false c) i, iii, iv & v are true; ii is false d) i & ii are true; iii, iv & v are false</p>
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Q7	<p>Non-functional system testing includes:</p> <ul style="list-style-type: none">a) testing to see where the system does not function correctlyb) testing quality attributes of the system including performance and usabilityc) testing a system function using only the software required for that functiond) testing for functions that should not exist
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Q8	<p>Which of the following is NOT part of configuration management?</p> <ul style="list-style-type: none">a) auditing conformance to ISO 9000b) status accounting of configuration itemsc) identification of test versionsd) controlled library access
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Q9	<p>Which of the following is the main purpose of the integration strategy for integration testing in the small?</p> <ul style="list-style-type: none">a) to ensure that all of the small modules are tested adequatelyb) to ensure that the system interfaces to other systems and networksc) to specify which modules to combine when, and how many at onced) to specify how the software should be divided into modules
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Q10	<p>What is the purpose of a test completion criterion?</p> <ul style="list-style-type: none">a) to know when a specific test has finished its executionb) to ensure that the test case specification is completec) to set the criteria used in generating test inputsd) to determine when to stop testing
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Q11	<p>Consider the following statements:</p> <ul style="list-style-type: none"> i. an incident may be closed without being fixed. ii. incidents may not be raised against documentation. iii. the final stage of incident tracking is fixing. iv. the incident record does not include information on test environments. <ul style="list-style-type: none"> a) ii is true, i, iii and iv are false b) i is true, ii, iii and iv are false c) i and iv are true, ii and iii are false d) i and ii are true, iii and iv are false
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Q12	<p>Given the following code, which statement is true about the minimum number of test cases required for full statement and branch coverage?</p> <pre style="margin-left: 20px;"> Read p Read q IF p+q > 100 THEN Print "Large" ENDIF IF p > 50 THEN Print "p Large" ENDIF </pre> <ul style="list-style-type: none"> a) 1 test for statement coverage, 3 for branch coverage b) 1 test for statement coverage, 2 for branch coverage c) 1 test for statement coverage, 1 for branch coverage d) 2 tests for statement coverage, 2 for branch coverage
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Q13	<p>Consider the following statements:</p> <ul style="list-style-type: none"> i. 100% statement coverage guarantees 100% branch coverage. ii. 100% branch coverage guarantees 100% statement coverage. iii. 100% branch coverage guarantees 100% decision coverage. iv. 100% decision coverage guarantees 100% branch coverage. v. 100% statement coverage guarantees 100% decision coverage. <ul style="list-style-type: none"> a) ii is True; i, iii, iv & v are False b) i & v are True; ii, iii & iv are False c) ii & iii are True; i, iv & v are False d) ii, iii & iv are True; i & v are False
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Q14	<p>Functional system testing is:</p> <ul style="list-style-type: none"> a) testing that the system functions with other systems b) testing that the components that comprise the system function together c) testing the end to end functionality of the system as a whole d) testing the system performs functions within specified response times
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Q15	<p>Incidents would not be raised against:</p> <ul style="list-style-type: none"> a) requirements b) documentation c) test cases d) improvements suggested by users
Q16	<p>Which of the following items would not come under Configuration Management?</p> <ul style="list-style-type: none"> a) operating systems b) test documentation c) live data d) user requirement documents
Q17	<p>Maintenance testing is:</p> <ul style="list-style-type: none"> a) updating tests when the software has changed b) testing a released system that has been changed c) testing by users to ensure that the system meets a business need d) testing to maintain business advantage
Q18	<p>What can static analysis NOT find?</p> <ul style="list-style-type: none"> a) the use of a variable before it has been defined b) unreachable ("dead") code c) memory leaks d) array bound violations
Q19	<p>Which of the following techniques is NOT a black box technique?</p> <ul style="list-style-type: none"> a) state transition testing b) LCSAJ c) syntax testing d) boundary value analysis
Q20	<p>Beta testing is:</p> <ul style="list-style-type: none"> a) performed by customers at their own site b) performed by customers at the software developer's site c) performed by an Independent Test Team d) performed as early as possible in the lifecycle

Q21	<p>Given the following types of tool, which tools would typically be used by developers, and which by an independent system test team?</p> <ul style="list-style-type: none">i. static analysisii. performance testingiii. test managementiv. dynamic analysis <p>a) developers would typically use i and iv; test team ii and iii b) developers would typically use i and iii; test team ii and iv c) developers would typically use ii and iv; test team i and iii d) developers would typically use i, iii and iv; test team ii</p>
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Q22	<p>The main focus of acceptance testing is:</p> <ul style="list-style-type: none">a) finding faults in the systemb) ensuring that the system is acceptable to all usersc) testing the system with other systemsd) testing from a business perspective
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Q23	<p>Which of the following statements about component testing is FALSE?</p> <ul style="list-style-type: none">a) black box test design techniques all have an associated test measurement techniqueb) white box test design techniques all have an associated test measurement techniquec) cyclomatic complexity is not a test measurement techniqued) black box test measurement techniques all have an associated test design technique
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Q24	<p>Which of the following statements is NOT true?</p> <ul style="list-style-type: none">a) inspection is the most formal review processb) inspections should be led by a trained leaderc) managers can perform inspections on management documentsd) inspection is appropriate even when there are no written documents
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Q25	<p>A typical commercial test execution tool would be able to perform all of the following, EXCEPT:</p> <ul style="list-style-type: none">a) calculating expected outputsb) comparison of expected outcomes with actual outcomesc) recording test inputsd) reading test values from a data file
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Q26	<p>The difference between re-testing and regression testing is:</p> <ul style="list-style-type: none"> a) re-testing ensures the original fault has been removed; regression testing looks for unexpected side-effects b) re-testing looks for unexpected side-effects; regression testing ensures the original fault has been removed c) re-testing is done after faults are fixed; regression testing is done earlier d) re-testing is done by developers; regression testing is done by independent testers
Q27	<p>Expected results are:</p> <ul style="list-style-type: none"> a) only important in system testing b) only used in component testing c) most useful when specified in advance d) derived from the code
Q28	<p>What type of review requires formal entry and exit criteria, including metrics:</p> <ul style="list-style-type: none"> a) walkthrough b) inspection c) management review d) post project review
Q29	<p>Which of the following uses Impact Analysis most?</p> <ul style="list-style-type: none"> a) component testing b) non-functional system testing c) user acceptance testing d) maintenance testing
Q30	<p>What is NOT included in typical costs for an inspection process?</p> <ul style="list-style-type: none"> a) setting up forms and databases b) analysing metrics and improving processes c) writing the documents to be inspected d) time spent on the document outside the meeting
Q31	<p>Which of the following is NOT a reasonable test objective:</p> <ul style="list-style-type: none"> a) to find faults in the software b) to prove that the software has no faults c) to give confidence in the software d) to find performance problems

Q32	<p>Which expression best matches the following characteristics of the review processes:</p> <ol style="list-style-type: none"> 1. led by the author 2. undocumented 3. no management participation 4. led by a moderator or leader 5. uses entry and exit criteria <ol style="list-style-type: none"> s) inspection t) peer review u) informal review v) walkthrough <p>a) s = 4 and 5, t = 3, u = 2, v = 1 b) s = 4, t = 3, u = 2 and 5, v = 1 c) s = 1 and 5, t = 3, u = 2, v = 4 d) s = 4 and 5, t = 1, u = 2, v = 3</p>
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Q33	<p>Which of the following is NOT part of system testing?</p> <ol style="list-style-type: none"> a) business process-based testing b) performance, load and stress testing c) usability testing d) top-down integration testing
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Q34	<p>Which statement about expected outcomes is FALSE?</p> <ol style="list-style-type: none"> a) expected outcomes are defined by the software's behaviour b) expected outcomes are derived from a specification, not from the code c) expected outcomes should be predicted before a test is run d) expected outcomes may include timing constraints such as response times
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Q35	<p>The standard that gives definitions of testing terms is:</p> <ol style="list-style-type: none"> a) ISO/IEC 12207 b) BS 7925-1 c) ANSI/IEEE 829 d) ANSI/IEEE 729
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Q36	<p>The cost of fixing a fault:</p> <ol style="list-style-type: none"> a) is not important b) increases the later a fault is found c) decreases the later a fault is found d) can never be determined
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Q37	<p>Which of the following is NOT included in the Test Plan document of the Test Documentation Standard?</p> <ul style="list-style-type: none">a) what is not to be testedb) test environment propertiesc) quality plansd) schedules and deadlines
Q38	<p>Could reviews or inspections be considered part of testing?</p> <ul style="list-style-type: none">a) no, because they apply to development documentationb) no, because they are normally applied before testingc) yes, because both help detect faults and improve qualityd) yes, because testing includes all non-constructive activities
Q39	<p>Which of the following is not part of performance testing?</p> <ul style="list-style-type: none">a) measuring response timesb) recovery testingc) simulating many usersd) generating many transactions
Q40	<p>Error guessing is best used:</p> <ul style="list-style-type: none">a) after more formal techniques have been appliedb) as the first approach to deriving test casesc) by inexperienced testersd) after the system has gone live

Self Marking Tick Sheet	
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Question number	Correct answer
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40	A

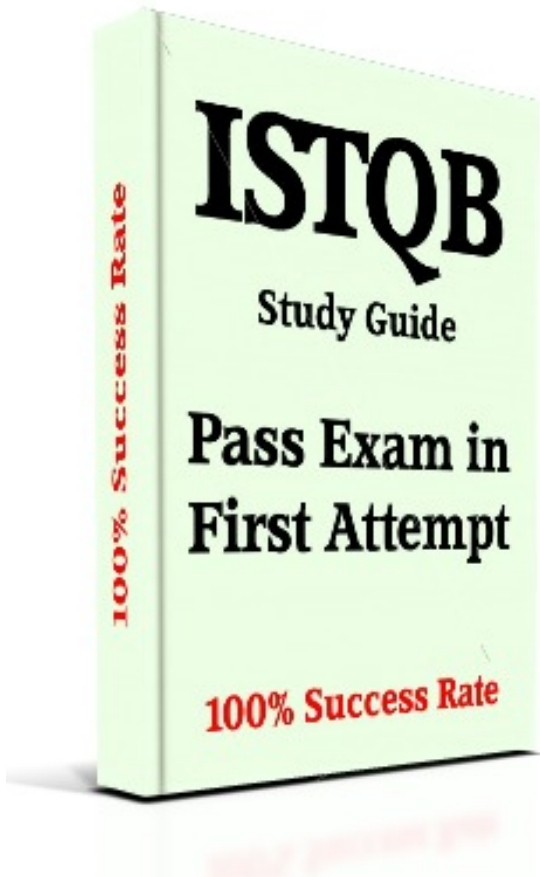
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