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CTFL-2018

ISTQB Certified Tester Foundation Level 2018



Exam A**QUESTION 1**

Which of the following **BEST** describes a Test Case?

- A. A statement about “what to test” in terms of measurable coverage criteria from analysis of the test basis.
- B. A set of preconditions, inputs, actions, expected results and postconditions developed based on test conditions.
- C. A description of the test objectives to be achieved and the means and the schedule for achieving them.
- D. A source to determine expected results to compare with the actual result of the system under test.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2 Testing and Debugging are key activities in the software development lifecycle.

Which of the following are **DEBUGGING** activities?

- a) Designing tests to find failures.
- b) Locating the cause of failures.
- c) Analysing and fixing the defects.
- d) Executing tests to show failures.

- A. a and d.
- B. a and b.
- C. b and c.
- D. c and d.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3 Which of the following options describe the chain of events in the correct sequence?

- A. Error, fault, failure.
- B. Fault, bug, mistake.
- C. Mistake, failure, fault.
- D. Failure, bug, error.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

During the development of a software change for a system, the developer makes a mistake in his work, which leads to a fault in the code. Unfortunately, the fault is not found by software testing and is released into live. What is the **DEFINITE** consequence of this mistake?

- A. The system will fail, causing a defect.
- B. If the defect is executed, the system may fail.
- C. Loss of money, time, or business reputation.
- D. Contractual requirements have not been met by testing.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5 Which of the following options **BEST** explains the pesticide paradox principle of testing?

- A. If we do not regularly review and revise our tests, we'll stop finding defects.
- B. Repeatedly running a set of tests will ensure that a system is defect free.
- C. Defects are, paradoxically, often contained in a small number of modules.
- D. Testing, like spraying pesticide, is an effective bug/defect removal activity.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6 During which stage of the fundamental test process is the testability of requirements evaluated?

- A. Test Execution.
- B. Test Planning.
- C. Test Design.
- D. Test Analysis.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7 Which of the following would achieve the **HIGHEST** level of testing independence for a project's system test level?

- A. Training developers to design good tests for the test team to execute.
- B. Outsourcing test design and execution to a different company.
- C. Having the company's independent test team design and execute the tests.
- D. Minimising contact between testers and developers during test design to avoid bias.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

Which **ONE** of the following is the **BEST** way to take advantage of the different mindsets of testers and developers?

- A. Insist on independent testing at all stages in the lifecycle.
- B. Have all developers undergo ISTQB training.
- C. Keep developers and testers in separate teams.
- D. Bring the two mindsets together.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

In which development life cycle model is regression testing an increasingly important activity as the project progresses?

- A. V-model.
- B. Waterfall.
- C. Scrum.
- D. Progressive.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10 Which of the following apply to System Testing?

- a) May satisfy legal requirements.
- b) Can use system specifications as a test basis.
- c) Often the responsibility of business users.
- d) Main goal is to establish confidence.
- e) Should focus on the communication between systems.

- A. a and c.
- B. b and d.
- C. a and b.
- D. c and e.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

After a record of poor quality software releases (incorrect menu selection options, new features that do not work, users allowed to change security levels without administrator rights), you have been asked to review the test capability in your company.

You have limited time to do the review before the next project, which type of testing would be **MOST** appropriate to review first?

- A. Functional testing.
- B. Non-functional testing.
- C. Performance testing.

D. Structural testing.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12 When can functional and structural testing
BOTH be applied?

- A. System and Component test levels only.
- B. All 'Development' test levels, i.e. those before Acceptance testing.
- C. Component and Component integration test levels only.
- D. All test levels.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13 Which of the following are triggers for
Maintenance testing?

- a) System migration from one platform to another.
- b) Retirement of a system.
- c) Preparation for an audit of a system.
- d) Modifications to a system.
- e) Development of a whole new system.

- A. a, c and d.
- B. b, c and e.C. a, d and e.
- D. a, b and d.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14 Which statement about Static
Testing is **TRUE**?

- A. Static testing can be applied to any work product that participants know how to read and understand.
- B. Static testing must only be applied to final work products that have been signed off.
- C. Static testing must be conducted by users of the product being tested.
- D. Static testing executes the code to verify the functionality is as expected.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15 When comparing Static and Dynamic test techniques, which of the following statements is **TRUE**?

- A. Static Testing finds failures, whilst Dynamic Testing only finds the cause of failures.
- B. Static Testing techniques, such as reviews, can be undertaken before Dynamic Testing, making defects cheaper to remove.
- C. Static Testing is based on the execution of code, whilst Dynamic Testing relies on examination and analysis.
- D. Only Static Testing has the objective of identifying defects.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16 Which defect below is **MOST** likely to be found by a review during static testing?

- A. Incorrect interface specifications.
- B. Old versions of software in use.
- C. Performance bottlenecks.
- D. Broken links to web addresses.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:



QUESTION 17 Which of the following is a typical characteristic of the **WALKTHROUGH** review type?

- A. The meeting is led by the author.
- B. Metrics are gathered throughout.
- C. Attendees must prepare before the meeting.
- D. Entry and exit criteria are defined.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

You are performing a review of your colleague's test cases based on the following test basis document:

User Login

User Name

Password

Validation failure #	Field Name	Validation rule	Error Number for validation failure
V1	User Name	Mandatory	12
V2	User Name	Must already exist on database	23
V3	Password	Mandatory	13
V4	Password	Must match user's password on database	24



The Test Cases are as follows:

- TC1. Success – valid 'User Name' and 'Password'; Customer Menu displayed
 TC2. Failure – 'User Name' field has blank entry; Error Number 12 displayed
 TC3. Failure – 'User Id' entered does not exist on database (i.e. unregistered user); Error Number 23 displayed
 TC4. Failure – 'Password' entered does not match user's password on database; Error Number 24 displayed

You are guided by the following checklist in your review:

- C1. There must be one test case to cover success
 C2. There must be one test case for each error path (e.g. validation failure)
 C3. Each test case must use terminology consistent with the test basis document (field names, error numbering, etc.)

Record a separate defect for each missing test case (checklist items C1 and C2) and for each test case that does not meet checklist item C3.

How many defects should you record?

- A. 1.
 B. 2.
 C. 3.
 D. 4.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19 Which of the following **BEST** describes checklist-based testing?

- A. An approach to testing whereby the testers dynamically design and execute tests based on their knowledge, exploration of the test item and the results of previous tests.
- B. An experience-based test technique whereby the experienced tester uses a high-level list of items to be noted, checked or remembered, or a set of rules or criteria against which a product has to be verified.
- C. A procedure to derive and/or select test cases based on an analysis of the specification, either functional or non-functional, of a component or system without reference to its internal structure.
- D. A test design technique which ensures that test cases are checked for consistency and completeness against an organisation's list of formatting rules and best practices.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

Which of the following is a key difference between black box and white box test design techniques?

- A. Black box techniques use software code to derive test cases, white box techniques do not.
- B. White box techniques use functional design specifications to derive test cases, black box techniques do not.
- C. White box techniques can measure the extent of code coverage, black box techniques can not.
- D. White box techniques derive test cases from models of the software, black box techniques do not.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

**QUESTION 21**

A car insurance policy has 3 rates of insurance depending on the age of the driver. For drivers aged between 17 and 25 inclusive they are charged at rate A, drivers aged between 26 and 50 inclusive are charged at rate B and those drivers aged over 50 are charged at rate C.

You are designing test cases, which of the following three ages would test all valid equivalence partitions and therefore test rate A, B and C?

- A. 26, 45, 50. B. 10, 21, 55. C. 20, 35, 65.
- D. 17, 25, 50.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

A student needs to score at least 50 points to pass. If they score at least 100 points they will achieve a merit and if they score at least 150 points they will achieve a distinction.

Which two values are in the same partition?

- A. 45 and 55.
- B. 55 and 120.
- C. 50 and 60.
- D. 45 and 170.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 23 A holiday club restricts those booking the holiday, to people between the ages of 18 and 30 inclusive.

Using three-point boundary values, what ages would be required to test the lower and upper boundary?

- A. 17, 18, 19, 29, 30, 31. B.
 17, 18, 19, 30, 31, 32. C.
 18, 19, 20, 28, 29, 30.
 D. 16, 17, 18, 30, 31, 32.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 24

Given the following decision tables, what is the expected result for the test case listed below?

	Rule 1	Rule 2	Rule 3	Rule 4
Condition				
< 10 kg	True	True	False	False
< £10	True	False	True	False
Action				
Must pay in cash only	True	False	True	False
Free delivery	False	False	True	True



Test Case: Purchase a Toaster weighing 9kg for £10.

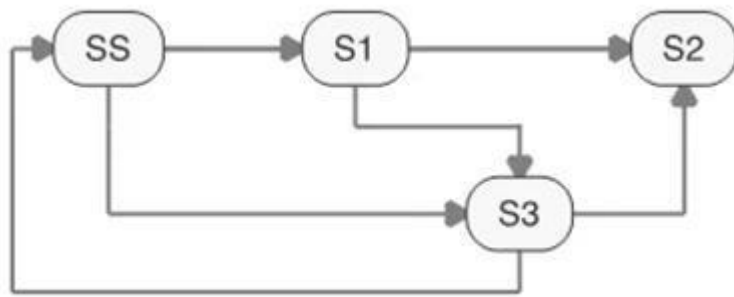
- A. No need to pay in cash, no free delivery.
 B. Must pay in cash, no free delivery.
 C. No need to pay in cash, free delivery.
 D. Must pay in cash, free delivery.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 25

Given the following state transition diagram where SS is the start state:



Which of the following answers describes a test case that only uses valid transitions to exercise all states, using the minimum number of transitions?

- A. SS-S3-SS-S1-S3-S2.
- B. SS-S3-S2-S1.C. SS-S1-S2-S3.
- D. SS-S1-S3-S2.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 26 Which statement about deriving test cases from a use case is **TRUE**?

- A. Test cases are designed to exercise the defined behaviours.
- B. There should only be one test case for each use case.
- C. Test cases can only be derived if there is an activity diagram.
- D. It is not possible to measure use case test coverage.



Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27 Which of the following is **NOT** a valid use of decision coverage?

- A. Checking that all decisions have been exercised in a single program.
- B. Checking that all decisions have been exercised in a business process.
- C. Checking that all decisions are based on a numeric value.
- D. Checking that at least 100% decision coverage has been achieved, as this guarantees 100% statement coverage.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

Which of the following is an approach that can be used for exploratory testing?

- A. Time-boxed test sessions are created, during which a tester uses a test charter containing test objectives to guide the testing.
- B. A tester methodically executes tests from a list of possible failures, based on experience, defect and failure data.

- C. A tester analyses, designs and implements tests based on external rules and standards.
- D. Tests are designed based on the guidance of stakeholders and experts outside the test team.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29 Which of the following **BEST** describes a methodical approach to the Error Guessing test technique?

- A. A tester dynamically designs and executes tests based on their knowledge, exploration of the test item and the results of previous tests.
- B. An experienced tester makes a list of potential defects and failures, and designs and runs tests to generate these failures should the defects be present in the code.
- C. A tester designs, implements and executes tests to cover test conditions found in checklists that are based on what is important for the user.
- D. An inexperienced tester is asked to attempt to guess errors that may have been missed by experienced testers during formal test design.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30 Which of the following are benefits of an independent test team, and which are drawbacks?

- a) Independent testers can find different defects.
- b) Developers may put less emphasis on quality.
- c) Independent testers can be seen as the reason for delayed projects.
- d) Independent testers can verify assumptions made during the specification of a system.

- A. a and b are benefits, c and d are drawbacks.
- B. b and c are benefits, a and d are drawbacks.
- C. a and d are benefits, b and c are drawbacks.
- D. c and d are benefits, a and b are drawbacks.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31 Tests have been specified for the latest software release and users have prioritised these.

However, there are some dependencies between tests as shown in the table below (e.g. Test ID. '123' cannot be run until Test ID. '456' has been successfully completed).



Test ID.	Description	Prioritisation	Dependency
1	List all users on screen	Low	
2	Regression test of daily processing	Medium	
3	Create an invoice	High	4
4	Change user details	Medium	1
5	Print all outstanding invoices	High	
6	Chase all outstanding invoices	Medium	5
7	Regression test of weekly processing	High	2
8	Amend invoice details	Medium	3
9	Bank reconciliation processing	Medium	3
10	Mark invoice as paid	High	9

Which test execution schedule best meets the prioritisation and dependency conditions?

- A. 3, 5, 7, 10, 2, 4, 6, 8, 9, 1. B. 5, 7, 4, 3, 9, 10, 1, 6, 8, 2. C. 6, 1, 2, 9, 4, 3, 5, 7, 8, 10. D. 1, 4, 3, 5, 2, 7, 9, 10, 6, 8.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 32 Testing effort can depend on a number of factors, which one of the following is **MOST** likely to impact the amount of effort required?

- A. The predicted number of defects and the amount of rework required.
B. The ratio of developers to testers in the project team.
C. The planned use of a project management tool to schedule tasks.
D. The responsibilities for testers and developers being clearly defined.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33 Which one of the following statements about techniques for estimating test effort is correct?

- A. The metrics-based technique finds the most similar former project and uses its original estimate for the current project.
B. The expert-based approach is based on the experience of the owners of the testing tasks or by subject matter experts.
C. The metrics-based technique uses metrics supplied by the current test team based on their subjective feel for effort required.
D. In an expert-based approach, the test lead with the most years in the role is chosen to produce the estimate.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34 Which of the following would **NOT** typically be covered in a test summary report?

- A. The risks associated with unresolved defects found during testing.
- B. Any features of the system that were not tested along with reasons.
- C. Whether there is any economic benefit in continuing testing beyond the planned date.
- D. An analysis of lessons learned to determine changes for future projects.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35 Which of the following **BEST** describes how configuration management supports the test process?

- A. It enables the tester to reproduce the tested item through unique identification and version control.
- B. It enables the tester to systematically design test conditions, cases and data.
- C. It enables incidents to be tracked from discovery and classification to correction and confirmation of the solution.
- D. It helps the test manager to decide how best to integrate and coordinate the testing activities into the software life cycle.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:



QUESTION 36 Which option **BEST** describes how the level of risk is determined?

- A. The likelihood of an adverse event happening multiplied by the cost of preventing it.
- B. The consequences of potential problem multiplied by the cost of possible legal action.
- C. The impact of an adverse event multiplied by the likelihood of that event occurring.
- D. The likelihood and the probability of a hazard occurring.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37 Which of the following are product risks?

- a) Failure prone software delivered.
- b) Software does not perform its intended functions.
- c) Insufficient staff available for testing.
- d) Test environment not ready on time.
- e) Poor data integrity and quality.

- A. b, c and e.
- B. b, d and e.
- C. a, b and e.
- D. b, c and d.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38

Your agile project has scheduled a final sprint before release to fix and re-test all open defects with a priority level of 3 or above.

The following defect report shows the defect fields that are currently being captured on the system.

Title: Unable to add excursions to pre-paid cruises

Date raised: 21/05/18

Author: Emma Rigby

Status: Fixed

What occurred: I went to book an excursion for a pre-paid cruise but received an error message saying, 'Facility not available'. I can book excursions on cruises that have not yet been fully paid.

What should have occurred: Requirement 3.12 says clearly that customers can add excursions after cruises have been fully paid so the facility should have been available (when an additional amount may now need to be paid).

Priority: 2

Software build: 2.1

Test level: System test

Environment details: System test 3

Which of **ONE** of the following additional defect report fields would be **MOST** beneficial for the sprint team to add?

- A. Severity.
- B. Test Script Id.
- C. Actual results.
- D. Expected results.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

An issue has been found in a production system, where a code component fails to release memory after it has finished using it. Which of the following tools would have been the **MOST** effective at detecting this defect during Performance testing?

- A. Dynamic analysis tool.
- B. Test Execution tool.
- C. Configuration management tool.
- D. Coverage measurement tool.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40 You have been asked to improve the way test automation tools are being used in your company. Which one of the following is the **BEST** approach?

- A. Selecting and automating scripts that test new functionality to find the most defects.
- B. Using a keyword-driven testing approach to separate the actions and data from the tool's script.
- C. Ensuring that all data, inputs and actions are stored in the tool's script for ease of maintenance.
- D. Keeping expected results separate from the automation tool to allow the testers to check the results.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

