



ISTQB

Exam Questions CTFL-Foundation

Certified Tester Foundation Level

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NEW QUESTION 1

Considerable attention will be given in this project to defining exit criteria and on reporting back on their status. Which combination of TWO exit criteria from the list would be best to use? 1 credit

- A. Total number of defects foundI
- B. Percentage of test cases executedII
- C. Total test effort planned versus total actual test effort spentI
- D. Defect trend (number of defects found per test run over time
- E. (i) and (ii)
- F. (i) and (iv)
- G. (ii) and (iii)
- H. (ii) and (iv)

Answer: D

NEW QUESTION 2

Explain how the above mentioned report may differ from a report that you produce for the project manager, who is a test specialist Select TWO items from the following options that can be used to report to the project manager and would not be included in a report to senior management. 1 credit

- A. Show details on effort spent
- B. List of all outstanding defects with their priority and severity
- C. Give product risk status
- D. Show trend analysis
- E. State recommendations for release

Answer: AB

NEW QUESTION 3

Which of the following is an example of testing as part of the requirements specification phase? 1 credit

- A. A requirements review meeting
- B. A business analyst eliciting requirements
- C. Performing acceptance tests against requirements
- D. A test report showing requirements coverage

Answer: A

NEW QUESTION 4

IEEE 1028 also defines “management review” as a type of review. What is the main purpose of a management review? 1 credit

- A. Align technical concepts during the design phase
- B. Establish a common understanding of requirements
- C. Provide independent evaluation of compliance to processes, regulations, standards etc.
- D. To monitor progress, assess the status of a project, and make decisions about future actions

Answer: D

NEW QUESTION 5

As part of the improvement program, the organization is also looking at tool support. Which type of tool could be used to ensure higher quality of the code to be reviewed? 1 credit

- A. Review tool
- B. Test execution tool
- C. Static analysis tool
- D. Test design tool

Answer: C

NEW QUESTION 6

Which of the following would you least expect to form part of the analysis of initial tool costs? 1 credit

- A. Integration with other tools
- B. Learning time required to use the new tool
- C. Tool portability
- D. Evaluation of suitable tools

Answer: C

NEW QUESTION 7

Select THREE issues from the options provided that should at least be raised. 1 credit

- A. Has there been sufficient comparison of tools?
- B. What are the problems we are trying to address?
- C. Do we have a set of tool requirements to validate the tool against?
- D. How will the implementation be organized?

- E. Which project will be selected to perform the tool pilot?
- F. Is customized training available?
- G. How will the change process be managed?

Answer: ABC

NEW QUESTION 8

Which of the following would be the TWO most appropriate examples of entry criteria documented in the system integration test plan? 2 credits

- A. The percentage of decision coverage achieved during unit testing.
- B. The availability of the latest version of the capture-replay tool (for testing the interface with the newly developed test management tool).
- C. The sign-off of a performance test software release note (test item transmittal report) by both development and testing showing that system performance meets the specified acceptance criteria.
- D. The percentage of acceptance test procedures scheduled for execution.
- E. The percentage of requirements coverage achieved during system integration tes

Answer: AB

NEW QUESTION 9

Which of the following are valid reasons for adopting a different life cycle (from the V model), for increments after the first year? 2 credits

- A. We do not have a clear understanding of the requirements from a customer perspective.i
- B. We see the risk of delivering requested functionality late as being higher than the risk of delivering a lower quality product.ii
- C. We do not have a budget for additional regression testing which is needed to ensure that existing functionality is not compromised by future iterations.i
- D. The company test strategy does not fit well within the V life cycle model.
- E. (i) and (ii)
- F. (i) and (iv)
- G. (ii) and (iii)
- H. (ii) and (iv)

Answer: A

NEW QUESTION 10

Which of the following is least likely to be used as a technique to identify project and product risks? 1 credit

- A. Brainstorming
- B. Inspections
- C. Expert interviews
- D. Independent assessments

Answer: B

NEW QUESTION 10

Which test management control option is most appropriate to adopt under these circumstances? 2 credits

- A. Introduce mandatory evening and weekend working to retrieve the 3 week slippage.
- B. Reconsider the exit criteria and review the test plan in the context of the current situation.
- C. Advise the user community regarding the reduced scope of requirements and the additional incremental delivery.
- D. Arrange a meeting with the user community representatives to discuss the user interfac

Answer: B

NEW QUESTION 12

Part of the testing strategy indicates that you are going to be using systematic test design techniques. Your manager has asked that you present the main advantages of using these techniques at the next board meeting. Identify THREE main benefits of using systematic test design techniques within this company. 2 credits (for 2 out correct 1 credit)

- A. Easier to quickly adapt testing to changing requirements compared to experienced-based testing
- B. Targets certain types of faults
- C. Will guide experienced testers to find defects
- D. Provides a way to differentiate depth of testing based on product risks by using different techniques
- E. More enhanced documentation and therefore higher repeatability and reproducibility
- F. Will make non-systematic testing redundant
- G. Will reduce the need for early reviews

Answer: BDE

NEW QUESTION 13

You have been asked to write a testing strategy for the company. Which statement best explains how risk can be addressed within the testing strategy? 1 credit

- A. A test strategy should address identified generic product risks and present a process for mitigating those risks in line with the testing policy.
- B. A test strategy identifies the specific product for a project risk and defines the approach for the test project.
- C. A test strategy is derived from the test policy and describes the way risk assessments are performed in projects.
- D. A test strategy is the result of a project risk analysis and defines the approach and resources for testin

Answer: A

NEW QUESTION 14

What would be a test approach regarding the test design techniques to be applied that would fit an item with the highest risk? 2 credits

- A. Component testing: decision testing; System testing: exploratory testing
- B. Component testing: decision testing; System testing: decision table testing
- C. Component testing: statement testing; System testing: equivalence partitioning
- D. Component testing: statement testing; System testing: decision table partitioning

Answer: B

NEW QUESTION 19

What is the Risk Priority Number for risk item number 2? 2 credits

- A. 16
- B. 2
- C. 1
- D. 63

Answer: D

NEW QUESTION 22

Evaluate the status of the project against the defined exit criteria. Which of the following options shows the correct status? 2 credits

- A. Criteria A = OK, criteria B = OK, criteria C = OK
- B. Criteria A = NOT OK, criteria B = NOT OK, criteria C = OK
- C. Criteria A = OK, criteria B = NOT OK, criteria C = NOT OK
- D. Criteria A = NOT OK, criteria B = NOT OK, criteria C = NOT OK

Answer: B

NEW QUESTION 24

You have investigated different possibilities and selected four of them to present to IT management. Which of the proposals will you most likely give your highest recommendations? 3 credits

- A. Insourcing of test automation based on an offer from a local company ABC that has people who are specialists in system level capture-replay automation tools and they also do regular training courses in test automation methods and tool
- B. They can then work closely with Vicki.
- C. Outsourcing of test automation based on an offer from an Asian company, AsiaAutoTest, which has people who are specialists in system level capture-replay automation tool
- D. They also offer training and besides they offer to run and maintain the regression tests in the future.
- E. Internal offer from the development department of XYZ to create the regression package using CppUnit as test automation tool
- F. One of the development groups have very good experiences in automating unit tests, and they are willing to do training as well.
- G. Solution from a tool vendor offering to educate two test team members in the use of their easy-to-use test automation capture replay tool over the first 3 months and based on that build the regression test suite
- H. In addition to Vicki, Steve is the only one that has time available to be educated.

Answer: A

NEW QUESTION 29

Which aspect in the test estimate is the main risk in this project? 1 credit

- A. Quality of the specification
- B. Availability of end-users
- C. The costs of hardware and tools
- D. Unknown input quality due to third party development

Answer: D

NEW QUESTION 34

In general which part of the testing activity is most difficult to estimate? 1 credit

- A. Test planning
- B. Test execution
- C. Test management
- D. Test design

Answer: B

NEW QUESTION 39

Comparing TMMi and TPI, which is not a valid reason for choosing either TPI or TMMi? 2 credits

- A. If the scope of test performance improvement covers all test levels, TMMi is preferred since TPI focusses mainly on black-box testing.
- B. If the organization is already applying CMMI, TMMi may be preferred since it has the same structure and uses the same terminology
- C. TMMi addresses management commitment very strongly and is therefore more suitable to support a top-down improvement process.
- D. TPI is much more a bottom-up model that is suitable for addressing test topics for a specific (test) project.
- E. TMMi can only be used with the traditional V model, whereas TPI can be used with all types of software life cycle

Answer: D

NEW QUESTION 43

The test improvement project will take place in an organization developing a safety-critical avionics application. Which one of the following standards do you believe would be most appropriate to take into account for compliance during your assignment? 1 credit

- A. ISO 9126
- B. IEEE 829
- C. BS 7925/2
- D. DO-178B

Answer: D

NEW QUESTION 45

Within the projects, a master test plan and phase test plan will be used. Following is a list of characteristics applicable for test plans:

- A. Any deviation from the procedures described in the test
 - B. strategy document
 - C. The overall estimated costs, timescales and resource
 - D. requirements
 - E. A detailed schedule of testing activities
 - F. The development deliverables to be tested
 - G. Which test staff members (names) will be involved and when
 - H. Level of requirements coverage achieved
- Which TWO of the above mentioned characteristics relate to the phase test plan? 1 credit
- I. a
 - J. b
 - K. c
 - L. d
 - M. e
 - N. f

Answer: CE

NEW QUESTION 49

Which of the following product risks would be most effectively addressed just by static testing? 3 credits

- A. In the delivered application, one of the countries, as specified in the requirements, has not been correctly implemented.
- B. The application takes too long to process a request for additional cover.
- C. The test cases do not cover the key requirements.
- D. The successful bidder may not deliver all the required functionality on time

Answer: C

NEW QUESTION 53

Which one of the following estimation approaches is appropriate at this stage of the project? 2 credits

- A. Create an estimate based on the function point analysis technique and test point analysis
- B. Create an estimate based on the complexity of the code
- C. Create an estimate based on the credentials of the successful bidder
- D. Create an estimate based on a percentage of the development effort

Answer: A

NEW QUESTION 58

Why might a RAD approach be a better option for the test manager rather than a sequential development? 2 credits

- A. It will extend the development team's abilities and enhance future delivery capabilities.
- B. It will allow the marketing, clerical and testing staff to validate and verify the early screen prototypes.
- C. Time-box constraints will guarantee code releases are delivered on schedule.
- D. More time can be spent on test execution as less formal documentation is required

Answer: B

NEW QUESTION 62

Continuing with the Scenario described in the previous question, which of the following topics would you need to address in detail in the master test plan? 3 credits

- A. An approach to regression testing
- B. A list of boundary values for "advance amount"
- C. A description of dependencies between test cases
- D. A logical collection of test cases

Answer: A

NEW QUESTION 65

Relying only on the information provided in the scenario, select the TWO items and/or features for which sufficient information is available to proceed with test

design. 2 credits

- A. All supported credit cards
- B. Language localization
- C. Valid and invalid advances
- D. Usability
- E. Response time

Answer: AC

NEW QUESTION 68

The effect of testing is to:

- A. Increase software quality;
- B. Give an indication of the software quality;
- C. Enable those responsible for software failures to be identified;
- D. Show there are no problems remaining?

Answer: B

NEW QUESTION 71

Which of the following could be a reason for a failure?

- 1) Testing fault
- 2) Software fault
- 3) Design fault
- 4) Environment Fault
- 5) Documentation Fault

- A. 2 is a valid reason; 1, 3, 4 & 5 are not
- B. 1, 2, 3, 4 are valid reasons; 5 is not
- C. 1, 2, 3 are valid reasons; 4 & 5 are not
- D. All of them are valid reasons for failure

Answer: A

NEW QUESTION 72

Which of the following are aids to good communication, and which hinder it?

- A. Try to understand how the other person feels.i
- B. Communicate personal feelings, concentrating upon individuals.ii
- C. Confirm the other person has understood what you have said and vice versa.i
- D. Emphasize the common goal of better quality.
- E. Each discussion is a battle to be won.
- F. (i), (ii) and (iii) aid, (iv) and (v) hinder.
- G. (iii), (iv) and (v) aid, (i) and (ii) hinder.
- H. (i), (iii) and (iv) aid, (ii) and (v) hinder.
- I. (ii), (iii) and (iv) aid, (i) and (v) hinder

Answer: C

NEW QUESTION 75

Code Coverage is used as a measure of what?

- A. Defects
- B. Trends analysis
- C. Test Effectiveness
- D. Time Spent Testing

Answer: C

NEW QUESTION 77

Which of the following statements contains a valuable objective for a test team?

- A. Prove that the remaining defects will not cause any additional failures.
- B. Run all of the tests that are defined for the test object as quickly as possible.
- C. Prove that all faults have been identified through thorough testing.
- D. Cause as many failures as possible so that faults can be identified and corrected

Answer: D

NEW QUESTION 82

Which of the following is most likely to be a benefit of using static techniques?

- A. Fewer performance defects.
- B. Productivity improvements in the development process.
- C. More efficient regression testing.
- D. Quick return on investment in static analysis tools.

Answer: B

Explanation:

Although the other options might be seen as benefits they are not amongst the most likely benefits. Option (B) is the benefit that is most likely to be realized.

NEW QUESTION 85

Reviewing the test Basis is a part of which phase

- A. Test Analysis and Design
- B. Test Implementation and execution
- C. Test Closure Activities
- D. Evaluating exit criteria and reporting

Answer: A

NEW QUESTION 87

Which of the following is true about the V-model?

- A. It has the same steps as the waterfall model for software development.
- B. It is referred to as a cyclical model for software development.
- C. It enables the production of a working version of the system as early as possible.
- D. It enables test planning to start as early as possibl

Answer: D

NEW QUESTION 92

A test management tool is most likely to integrate with which of the following tools?

- A. Performance testing tool
- B. Test data preparation tool
- C. Static analysis tool
- D. Requirements management tool

Answer: D

Explanation:

Requirements management tools (option (D)) often have interfaces with test management tools. In some cases they will be sold as a package or in other cases a test management tool may have its own requirements module. The use of such interfaces or integrated packages aids traceability from requirements through to test scripts and defects.

Performance management tools (option (A)), test data preparation tools (option (B)) and static analysis tools (option (C)) are unlikely to have an interface or be integrated with a test management tool. They serve different purposes and therefore there is little need for such interfaces.

NEW QUESTION 94

According to the ISTQB Glossary, regression testing is required for what purpose?

- A. To verify the success of corrective actions.
- B. To prevent a task from being incorrectly considered completed.
- C. To ensure that defects have not been introduced by a modification.
- D. To motivate better unit testing by the programmer

Answer: C

NEW QUESTION 96

Tools like change Man, Clear case are used as..?

- A. functional automation tools
- B. performance testing tools
- C. configuration management tools
- D. none of the above

Answer: C

NEW QUESTION 100

Which is not the testing objective?

- A. Finding defects
- B. Gaining confidence about the level of quality and providing information
- C. Preventing defects.
- D. Debugging defects

Answer: D

NEW QUESTION 102

What is the benefit of independent testing?

- A. More work gets done because testers do not disturb the developers all the time.
- B. Independent testers tend to be unbiased and find different defects than the developers
- C. Independent testers do not need extra education and training.
- D. Independent testers reduce the bottleneck in the incident management proces

Answer: B

NEW QUESTION 104

Which of the following are examples of iterative development models?

- (i) V-model
- (ii) Rapid Application Development model
- (iii) Waterfall model
- (iv) Agile development model

- A. (i) and (ii)
- B. (ii) and (iii)
- C. (ii) and (iv)
- D. (iii) and (iv)

Answer: C

Explanation:

The other two models are sequential models.

NEW QUESTION 108

Which of the following are most characteristic of structure-based testing?

- (i) Information about how the software is constructed is used to derive test cases.
- (ii) Statement coverage and/or decision coverage can be measured for existing test cases.
- (iii) The knowledge and experience of people are used to derive test cases.
- (iv) Test cases are derived from a model or specification of the system.

- A. (i) and (ii)
- B. (ii) and (iii)
- C. (ii) and (iv)
- D. (i) and (iii)

Answer: A

NEW QUESTION 110

Which is not a major task of test implementation and execution?

- A. Develop and prioritizing test cases, creating test data, writing test procedures and optionally, preparing test harness and writing automated test scripts.
- B. Logging the outcome of test execution and recording the identities and versions of the software under test, test tools and testware.
- C. Checking test logs against the exit criteria specified in test planning.
- D. Verifying that the test environment has been set up correctl

Answer: C

NEW QUESTION 115

Which of the following terms is used to describe the management of software components comprising an integrated system?

- A. Configuration management
- B. Incident management
- C. Test monitoring
- D. Risk management

Answer: A

Explanation:

Incident management is the collection and processing of incidents raised when errors and defects are discovered. Test monitoring identifies the status of the testing activity on a continuous basis. Risk management identifies, analyses and mitigates risks to the project and the product. Configuration management is concerned with the management of changes to software components and their associated documentation and testware.

NEW QUESTION 120

The difference between re-testing and regression testing is:

- A. Re-testing is running a test again; regression testing looks for unexpected side effects
- B. Re-testing looks for unexpected side effects; regression testing is repeating those tests
- C. Re-testing is done after faults are fixed; regression testing is done earlier
- D. Re-testing uses different environments, regression testing uses the same environment
- E. Re-testing is done by developers, regression testing is done by independent testers

Answer: A

NEW QUESTION 124

Which of the following is in the correct order (typically)?

- A. Unit testing, system testing, acceptance testing, maintenance testing.
- B. System testing, unit testing, acceptance testing, maintenance testing.
- C. Acceptance testing, system testing, maintenance testing, unit testing.
- D. Unit testing, maintenance testing, system testing, acceptance testin

Answer: A

NEW QUESTION 129

In a review meeting a moderator is a person who:

- A. Takes minutes of the meeting
- B. Mediates between people
- C. Takes telephone calls
- D. Writes the documents to be reviewed

Answer: B

NEW QUESTION 132

Which list of levels of tester independence is in the correct order, starting with the most independent first?

- A. Tests designed by the author; tests designed by another member of the development team; tests designed by someone from a different company.
- B. Tests designed by someone from a different department within the company; tests designed by the author; tests designed by someone from a different company.
- C. Tests designed by someone from a different company; tests designed by someone from a different department within the company; tests designed by another member of the development team.
- D. Tests designed by someone from a different department within the company; tests designed by someone from a different company; tests designed by the author.

Answer: C

Explanation:

This option has someone nearer to the written code in each statement. All other options are not in this order.

NEW QUESTION 137

Which of the following is a benefit of test independence?

- A. It does not require familiarity with the code.
- B. It is cheaper than using developers to test their own code.
- C. It avoids author bias in defining effective tests.
- D. Testers are better at finding defects than developer

Answer: C

NEW QUESTION 142

Faults found by users are due to..?

- A. Poor quality software
- B. Poor software and poor testing
- C. Bad luck
- D. Insufficient time for testing

Answer: B

NEW QUESTION 144

Consider the following pseudo code: 1 Begin

2 Read Time

3 If Time < 12 Then

4 Print(Time, "am")

5 Endif

6 If Time > 12 Then

7 Print(Time 12, "pm")

8 Endif

9 If Time = 12 Then 10 Print (Time, "noon") 11 Endif

12 End

If the test cases Time = 11 and Time = 15 were input, what level of decision coverage would be achieved?

- A. 100% or 6/6
- B. 50% or 3/6
- C. 67% or 4/6
- D. 83% or 5/6

Answer: D

Explanation:

Test case 1 exercises the decision outcomes True, False, False

Test case 2 exercises the decision outcomes False, True, False This leaves the True outcome of decision 3 not exercised. Of the 6 possible decision outcomes, 5 have been exercised, so the decision coverage is 5/6 (about 83%).

NEW QUESTION 149

Which of the following statements BEST describes the difference between testing and debugging?

- A. Testing pinpoints (identifies the source of) the defect
- B. Debugging analyzes the faults and proposes prevention activities.
- C. Dynamic testing shows failures caused by defect
- D. Debugging finds, analyzes, and removes the causes of failures in the software.
- E. Testing removes fault
- F. Debugging identifies the causes of failures.
- G. Dynamic testing prevents causes of failure
- H. Debugging removes the failure

Answer: B

NEW QUESTION 153

A software component has the code shown below: Program BiggestA,

Biggest: Integer Begin

Read A Biggest = 10 While A > 0 Do

If A > Biggest Then Biggest = A Endif

Read A Enddo End

The component has exit criteria for component testing that include 100% statement coverage. Which of the following test cases will satisfy this criterion?

- A. 10, 0
- B. 10, 5, 0
- C. 10, 11, 0

Answer: D

NEW QUESTION 154

What is the purpose of exit criteria?

- A. To identify how many tests to design.
- B. To identify when to start testing.
- C. To identify when to stop testing.
- D. To identify who will carry out the test executio

Answer: C

NEW QUESTION 157

Which of these are objectives for software testing?

- A. Determine the productivity of programmers
- B. Eliminate the need for future program maintenance
- C. Eliminate every error prior to release
- D. Uncover software errors

Answer: D

NEW QUESTION 161

Which of the following is the main purpose of the component build and integration strategy?

- A. to ensure that all of the small components are tested
- B. to ensure that the system interfaces to other systems and networks
- C. to ensure that the integration testing can be performed by a small team
- D. to specify how the software should be divided into components
- E. to specify which components to combine when, and how many at once

Answer: E

NEW QUESTION 164

Which of the following is most likely to be performed by developers?

- A. Technical review of a functional specification.
- B. Walkthrough of a requirements document.
- C. Informal review of a program specification.
- D. Static analysis of a software mode

Answer: D

Explanation:

Static analysis is done almost exclusively by developers. The other review types would be performed using a combination of developers, testers and other interested stakeholders.

NEW QUESTION 168

Which statement is most true?

- A. Different testing is needed depending upon the application.
- B. All software is tested in the same way.
- C. A technique that finds defects will always find defects.
- D. A technique that has found no defects is not useful.

Answer: A

Explanation:

This is a restatement of the testing principle 'Testing is context dependent'

NEW QUESTION 170

The selection of test cases for regression testing..?

- A. Requires knowledge on the bug fixes and how it affect the system
- B. Includes the area of frequent defects
- C. Includes the area which has undergone many/recent code changes
- D. All of the above

Answer: D

NEW QUESTION 173

Which of the following statements BEST describes one of the seven key principles of software testing?

- A. Automated tests are better than manual tests for avoiding the Exhaustive Testing.
- B. Exhaustive testing is, with sufficient effort and tool support, feasible for all software.
- C. It is normally impossible to test all input / output combinations for a software system.
- D. The purpose of testing is to demonstrate the absence of defect
- E. The purpose of testing is to demonstrate the absence of defects.

Answer: C

NEW QUESTION 177

Important consequences of the impossibility of complete testing are ..?

- A. We can never be certain that the program is bug free
- B. We have no definite stopping point for testing, which makes it easier for some managers to argue for very little testing
- C. We have no easy answer for what testing tasks should always be required, because every task takes time that could be spent on other high importance tasks
- D. All of the above

Answer: D

NEW QUESTION 180

Important consequences of the impossibility of complete testing are:

- A. We can never be certain that the program is bug free.
- B. We have no definite stopping point for testing, which makes it easier for some managers to argue for very little testing.
- C. We have no easy answer for what testing tasks should always be required, because every task takes time that could be spent on other high importance tasks.
- D. All of the above

Answer: D

NEW QUESTION 185

What is the purpose of a test completion criterion?

- A. to know when a specific test has finished its execution
- B. to ensure that the test case specification is complete
- C. to set the criteria used in generating test inputs
- D. to determine when to stop testing

Answer: B

NEW QUESTION 188

The purpose of exit criteria is:

- A. Define when to stop testing
- B. End of test level
- C. When a set of tests has achieved a specific pre condition
- D. All of the above

Answer: D

NEW QUESTION 189

When assembling a test team to work on an enhancement to an existing system, which of the following has the highest level of test independence?

- A. A business analyst who wrote the original requirements for the system.

- B. A permanent programmer who reviewed some of the new code, but has not written any of it.
- C. A permanent tester who found most defects in the original system.
- D. A contract tester who has never worked for the organization before.

Answer: D

Explanation:

In this scenario, the contract tester who has never worked for the organization before has the highest level of test independence. The three others are less independent as they are likely to make assumptions based on their previous knowledge of the requirements, code and general functionality of the original system. Note that independence does not necessarily equate to most useful. In practice most test or project managers would recruit a permanent tester who has worked on the original system in preference to a contract tester with no knowledge of the system. However, when assembling a team it would be useful to have staff with varying levels of test independence and system knowledge.

NEW QUESTION 192

Which of the following statements are true?

- (i) For every development activity there is a corresponding testing activity.
- (ii) Each test level has the same test objectives.
- (iii) The analysis and design of tests for a given test level should begin after the corresponding development activity.
- (iv) Testers should be involved in reviewing documents as soon as drafts are available in the development life cycle.

- A. (i) and (ii)
- B. (iii) and (iv)
- C. (ii) and (iii)
- D. (i) and (iv)

Answer: D

Explanation:

Option (ii) is incorrect: each test level has a different objective.

Option (iii) is also incorrect: test analysis and design should start once the documentation has been completed.

NEW QUESTION 194

Fault Masking is:

- A. Error condition hiding another error condition
- B. Creating a test case which does not reveal a fault
- C. Masking a fault by developer
- D. Masking a fault by a tester

Answer: A

NEW QUESTION 195

Which of the following is NOT part of configuration management..?

- A. Status accounting of configuration items
- B. Auditing conformance to ISO9001
- C. Identification of test versions
- D. Record of changes to documentation over time
- E. Controlled library access

Answer: B

NEW QUESTION 197

For which of the following would maintenance testing be used?

- A. Correction of defects during the development phase.
- B. Planned enhancements to an existing operational system.
- C. Complaints about system quality during user acceptance testing.
- D. Integrating functions during the development of a new system

Answer: B

NEW QUESTION 198

Which of the following is not a part of the Test Implementation and Execution Phase?

- A. Creating test suites from the test cases
- B. Executing test cases either manually or by using test execution tools
- C. Comparing actual results
- D. Designing the Tests

Answer: D

NEW QUESTION 202

Which of the following is a non-functional requirement?

- A. The system will enable users to buy books.

- B. The system will allow users to return books.
- C. The system will ensure security of the customer details.
- D. The system will allow up to 100 users to log in at the same time.

Answer: D

Explanation:

The other options are functional requirements. Note that security is regarded as a functional requirement in this syllabus.

NEW QUESTION 206

Which is not in sequence in 11 Step Software Testing process..?

- A. Assess development plan and status
- B. Develop the test plan
- C. Test software design
- D. Test software requirement

Answer: C

NEW QUESTION 210

One of the roles in a review is that of moderator, which of the following best describes this role?

- A. Plans the review, runs the review meeting and ensures that follow-up activities are completed.
- B. Allocates time in the plan, decides which reviews will take place and that the benefits are delivered.
- C. Writes the document to be reviewed, agrees that the document can be reviewed, and updates the document with any changes.
- D. Documents all issues raised in the review meeting, records problems and open point

Answer: A

NEW QUESTION 214

What should be the MAIN objective during development testing?

- A. To cause as many failures as possible so that defects in the software are identified and can be fixed
- B. To confirm that the system works as expected and that requirements have been met
- C. To assess the quality of the software with no intention of fixing defects
- D. To give information to stakeholders of the risk of releasing the system at a given time

Answer: A

NEW QUESTION 215

Which of the following is true of iterative development?

- A. It uses fully defined specifications from the start.
- B. It involves the users in the testing throughout.
- C. Changes to the system do not need to be formally recorded.
- D. It is not suitable for developing website

Answer: B

NEW QUESTION 220

The following statements relate to activities that are part of the fundamental test process.

- A. Evaluating the testability of requirements.i
- B. Repeating testing activities after changes.ii
- C. Designing the test environment set-up.i
- D. Developing and prioritizing test cases.
- E. Verifying the environment is set up correctl
- F. Which statement below is TRUE?
- G. (i) and (ii) are part of analysis and design, (iii), (iv) and (v) are part of test implementation and execution.
- H. (i) and (iii) are part of analysis and design, (ii), (iv) and (v) are part of test implementation and execution.
- I. (i) and (v) are part of analysis and design, (ii), (iii) and (iv) are part of test implementation and execution.
- J. (i) and (iv) are part of analysis and design, (ii), (iii) and (v) are part of test implementation and execution.

Answer: B

Explanation:

All other answers contain an activity identified as analysis and design that is part of implementation and test execution.

NEW QUESTION 221

An input field takes the year of birth between 1900 and 2004. The boundary values for testing this field are:

- A. 0,1900,2004,2005
- B. 1900, 2004
- C. 1899,1900,2004,2005
- D. 1899, 1900, 1901,2003,2004,2005

Answer: C

NEW QUESTION 223

Which statement correctly describes the public and profession aspects of the code of ethics?

- A. Public: Certified software testers shall act in the best interests of their client and employer (being consistent with the wider public interest). Profession: Certified software testers shall advance the integrity and reputation of their industry consistent with the public interest.
- B. Public: Certified software testers shall advance the integrity and reputation of the profession consistent with the public interest.
- C. Profession: Certified software testers shall consider the wider public interest in their actions.
- D. Public: Certified software testers shall consider the wider public interest in their action.
- E. Profession: Certified software testers shall participate in lifelong learning regarding the practice of their profession and shall promote an ethical approach to the practice of their profession.
- F. Public: Certified software testers shall consider the wider public interest in their action.
- G. Profession: Certified software testers shall advance the integrity and reputation of their industry consistent with the public interest.

Answer: D

Explanation:

All other answers contain an activity identified as analysis and design that is part of implementation and test execution.

NEW QUESTION 227

Which of the following is not a type of incremental testing approach?

- A. Top down
- B. Big-bang
- C. Bottom up
- D. Functional incrementation

Answer: B

NEW QUESTION 228

Which activities form part of test planning?

- i) Developing test cases.
- ii) Defining the overall approach to testing.
- iii) Assigning resources.
- iv) Building the test environment.
- v) Writing test conditions.

- A. i, ii & iv are true, iii & v are false.
- B. ii & iii are true, i, iv & v are false.
- C. iv & v are true, i, ii & iii are false.
- D. i, ii & iii are true iv & v are false

Answer: B

NEW QUESTION 231

Which pair of definitions is correct?

- A. Regression testing is checking that the reported defect has been fixed; retesting is testing that there are no additional problems in previously tested software.
- B. Regression testing is checking there are no additional problems in previously tested software; retesting enables developers to isolate the problem.
- C. Regression testing involves running all tests that have been run before; retesting runs new tests.
- D. Regression testing is checking that there are no additional problems in previously tested software, retesting is demonstrating that the reported defect has been fixed.

Answer: D

Explanation:

Regression testing is testing that nothing has regressed. Retesting (or confirmation testing) confirms the fix is correct by running the same test after the fix has been made. No other option has both of these as true.

NEW QUESTION 235

Which TWO of the review types below are the BEST fitted (most adequate) options to choose for reviewing safety critical components in a software project? Select 2 options.

- A. Informal review.
- B. Management review.
- C. Inspection.
- D. Walkthrough
- E. Technical Review

Answer: CE

NEW QUESTION 239

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

- A. an error

- B. a fault
- C. a failure
- D. a defect

Answer: C

NEW QUESTION 244

Pick the best definition of quality:

- A. Quality is job one
- B. Zero defects
- C. Conformance to requirements
- D. Work as designed

Answer: C

NEW QUESTION 249

What test roles (or parts in the testing process) is a developer most likely to perform?

- (i) Executing component integration tests.
- (ii) Static analysis.
- (iii) Setting up the test environment.
- (iv) Deciding how much testing should be automated.

- A. (i) and (ii)
- B. (i) and (iv)
- C. (ii) and (iii)
- D. (iii) and (iv)

Answer: A

Explanation:

- (i) Executing component integration tests is usually done by developers. Developers are usually responsible for unit and component integration testing. Independent testing usually follows at system and acceptance test levels.
- (ii) Static analysis is usually done by developers because: it requires an understanding of the code and therefore the person doing this needs skills in the programming language; and it can be done as soon as the code is written. Therefore it is quick and effective for the developer to do it. The risk of a lack of test independence can be mitigated by performing independent system and acceptance testing.
- (iii) Setting up the test environment is an activity typically performed by a tester. It may require support from developers and staff from other departments and on some occasions environments could be set up by developers. However, it is a task that could be done by a tester rather than a developer.
- (iv) Deciding how much testing should be automated is typically a decision made by the test leader, who will consult other staff in the decision-making process. Developers may be involved and their skills may be required to automate some tests. However, the decision on how much to automate should not be made by developers.

NEW QUESTION 252

Which of the following statements are TRUE?

- A. Regression testing and acceptance testing are the same
- B. Regression tests show if all defects have been resolved
- C. Regression tests are typically well-suited for test automation
- D. Regression tests are performed to find out if code changes have introduced or uncovered defects
- E. Regression tests should be performed in integration testing.
- F. A, C and D are true; B and E are false.
- G. A, C and E are true; B and D are false.
- H. C and D are true; A, B and E are false.
- I. B and E are true; A, C and D are false.

Answer: C

NEW QUESTION 256

The purpose of requirement phase is:

- A. To freeze requirements
- B. To understand user needs
- C. To define the scope of testing
- D. All of the above

Answer: D

NEW QUESTION 259

Which of the following statements are correct for walkthroughs?

- (i) Often led by the author.
- (ii) Documented and defined results.
- (iii) All participants have defined roles.
- (iv) Used to aid learning.
- (v) Main purpose is to find defects.

- A. (i) and (v) are correct.
- B. (ii) and (iii) are correct.
- C. (i) and (iv) are correct.

D. (iii) and (iv) are correc

Answer: C

NEW QUESTION 264

Which of the following types of test tool are most likely to include traceability functions?

- (i) Performance testing tool
- (ii) Requirements management tool
- (iii) Configuration management tool
- (iv) Static analysis tool

- A. (i) and (ii)
- B. (i) and (iv)
- C. (ii) and (iii)
- D. (iii) and (iv)

Answer: C

Explanation:

Requirements management tools (ii) have traceability because they enable test conditions and subsequently test scripts and defects to be traced back to requirements. Configuration management tools (iii) also need to trace the appropriate version of a test script to the release or version of a system or module. Performance monitoring tools (i) and static analysis tools (iv) are designed for specific objectives. Neither of these tools particularly need traceability functions.

NEW QUESTION 268

Testing should be stopped when:

- A. All the planned tests have been run
- B. Time has run out
- C. All faults have been fixed correctly
- D. Both A and C
- E. It depends on the risks for the system being tested

Answer: E

NEW QUESTION 273

Which of the following statements about risks is most accurate?

- A. Project risks rarely affect product risk.
- B. Product risks rarely affect project risk.
- C. A risk-based approach is more likely to be used to mitigate product rather than project risks.
- D. A risk-based approach is more likely to be used to mitigate project rather than product risks.

Answer: C

Explanation:

In general, project risk and product risk can be hard to differentiate. Anything that impacts on the quality of the delivered system is likely to lead to delays or increased costs as the problem is tackled. Anything causing delays to the project is likely to threaten the delivered system's quality. The risk-based approach is an approach to managing product risk through testing, so it impacts most directly on product risk.

NEW QUESTION 277

Why is independent testing important? [K1]

- A. Because independent testers make fewer assumptions than developers
- B. Because independent testers are isolated from the development team
- C. Because independent testers can verify assumptions made during specification and implementation of the system
- D. Because independent testers have a greater sense of responsibility for quality than developers

Answer: C

NEW QUESTION 281

Equivalence Partitioning is best defined as:

- A. An analysis technique that divides inputs into groups that are expected to exhibit similar behaviors.
- B. Applying to time-related data classes only.
- C. A form of white-box testing.
- D. A method to reduce test coverag

Answer: A

NEW QUESTION 283

What other details should be included in the following incident report when it is first submitted? Date of Issue: 23/11/05 Severity: P1

Build: Version15.6

Details: Expected field to be limited to 15 chars, able to enter 27

- A. Suggested solution, priority and number of defects assigned to this developer.
- B. Status of the incident, degree of impact, Test Case Number.

- C. History, related defects and expected fix time.
- D. Line of code, number of defects found, time of da

Answer: B

NEW QUESTION 285

A system calculates the amount of customs duty to be paid:

- _ No duty is paid on goods value up to, and including, \$2,000. _ The next \$8,000 is taxed at 10%.
- _ The next \$20,000 after that is taxed at 12%.
- _ Any further amount after that is taxed at 17%.

To the nearest \$, which of these groups of numbers fall into three DIFFERENT equivalence classes?

- A. \$20,000 \$20,001 \$30,001
- B. \$2,000 \$2,001 \$10,000
- C. \$2,000 \$8,000 \$20,000
- D. \$1,500 \$2,000 \$10,000

Answer: C

NEW QUESTION 290

Which of the following BEST defines static techniques? [K1]

- A. Executing the software work product
- B. Manually examining the code or project documentation
- C. Automated analysis of the code or project documentation
- D. Manual examination and automated analysis of code or project documentation

Answer: D

NEW QUESTION 293

System testing is:

- A. Used to search for defects in software modules that are separately testable.
- B. The responsibility of the users of a system.
- C. Concerned with the behavior of a whole system/product as defined by the scope of a development project.
- D. Triggered by modifications, migration or retirement of the software syste

Answer: C

NEW QUESTION 294

Which of the following best describes the Black-box technique?

- A. It uses decision coverage for completeness.
- B. It ensures all possible branches in the code are tested.
- C. It is based on the internal structure of the system.
- D. It can be done without reference to the internal structure of the component or syste

Answer: D

NEW QUESTION 295

What is decision table testing?

- A. It's a testing design technique based in the internal software structure.
- B. It's a static test design technique.
- C. It's a testing design technique to verify decisions.
- D. It's a testing design technique based in the system requirement

Answer: D

NEW QUESTION 296

Which of the following would NOT be a typical target of testing support tools?

- A. Automate activities that require significant resources when done manually
- B. Automate activities that cannot be executed manually
- C. Automate repetitive tasks
- D. Automating repetitive inspections

Answer: D

NEW QUESTION 301

Which of the following characteristics is most likely to promote effective software testing? [K1]

- A. Independence from the production process
- B. A belief that programmers always make mistakes
- C. Knowledge of the number of defects typically found in a program

D. Confidence that the next stage will find defects missed at this stage

Answer: A

NEW QUESTION 305

A bank is developing a new service that will be delivered via the web. The user interactions are defined as a set of use cases and the service is designed to be available continuously 24/7. In view of the challenging characteristics of the service the test manager has decided that the code should be thoroughly tested at component level.

Which of the following test types will be required during the development? [K2]

- A. Functional testing to test security at the system level, load testing at the system level to ensure the system availability is acceptable, regression testing at all levels, structure based testing at the component level only
- B. Functional testing to test the use cases at component level, reliability testing to test availability at the integration level, regression testing at the system testing level only, structure based testing at all levels
- C. Functional testing of the use cases at system level, load testing at component level to ensure availability is acceptable, regression testing at the system and acceptance levels only, and structure based testing at the integration level only
- D. Functional testing to test security at the acceptance level, load testing at the acceptance test level to ensure availability is acceptable, regression testing at the acceptance level only to ensure late changes are made correctly, and structure based testing at the component level

Answer: A

NEW QUESTION 306

Dynamic Analysis Tools are used to:

- A. Determine differences between files or databases.
- B. Monitor and report on how a system behaves under a variety of conditions.
- C. Find defects, such as memory leaks, while software is executing.
- D. Measure the percentage of specific types of code structure that have been exercise

Answer: C

NEW QUESTION 311

Which of the following test design techniques is classified as a structure-based (white box) technique? [K1]

- A. Exploratory testing
- B. Decision table testing
- C. State transition testing
- D. Statement testing

Answer: D

NEW QUESTION 315

Which of the following is a valid objective of testing? [K1]

- A. Correcting defects
- B. Locating defects in the code
- C. Preventing defects
- D. Ensuring no defects are present

Answer: C

NEW QUESTION 320

Which of the following is a consideration when deploying test execution tools? [K1]

- A. Data-driven testing cannot be used with test execution tools
- B. Recorded manual tests may become unstable in use
- C. Keyword-driven testing cannot be used with test execution tools
- D. Expected results for tests are not required because the tool generates expected results

Answer: B

NEW QUESTION 323

Functional and structural tests are alternative test types that may be used separately or together at which test level? [K1]

- A. At the component test level only
- B. At all test levels
- C. At integration testing and system testing levels only
- D. At all levels from integration testing to acceptance testing

Answer: B

NEW QUESTION 328

What is the main reason for using a pilot project to introduce a testing tool into an organization? [K1]

- A. To identify the requirements for using a tool

- B. To make a selection between alternative tools
- C. To assess whether the tool will be cost- effective
- D. To ensure the tools fits existing processes without change

Answer: C

NEW QUESTION 329

Which of the following is a role of a formal review? [K1]

- A. Adjudicator
- B. Moderator
- C. Governor
- D. Corrector

Answer: B

NEW QUESTION 334

A data driven approach to test automation design is best described as:

- A. Using action words to describe the actions to be taken, the test data.
- B. Scaling to support large numbers of users.
- C. Being based on Equivalence Partitioning testing techniques.
- D. Separating out the test data inputs and using a generic script that can read the test data and perform the same test steps with different data.

Answer: D

NEW QUESTION 337

When should testers be involved in reviewing a UAT specification? [K1]

- A. At the beginning of the project
- B. As soon as requirements have been approved
- C. As soon as the UAT specification has been drafted
- D. At any time before UAT begins

Answer: C

NEW QUESTION 340

From the following list, which of the following apply to experience-based techniques? [K2]

- A. Test cases are derived from a model of the problem to be solved or the software
- B. Test cases are derived from the knowledge of the testers
- C. The knowledge of testers, developers and users is used to drive testing
- D. The internal structure of the code is used to derive test cases
- E. a and b.
- F. c and d.
- G. a and d.
- H. b and

Answer: D

NEW QUESTION 341

What type of test design technique is the most effective in testing screen-dialog flows?

- A. Use case testing
- B. Boundary value testing
- C. Statement testing and coverage
- D. State transition testing

Answer: D

NEW QUESTION 344

What is the value of static code analysis?

- A. Detection of failures not easily found by other types of testing
- B. Early defect detection
- C. Detection of suspicious operations caused by deviations from regulations
- D. Detect deviations in standards by executing the source code

Answer: B

NEW QUESTION 346

When an organization considers the use of testing tools, they should:

- A. Use a tool in order to help define a good test process because the tool will force process repeatability and therefore enforce good test process.
- B. Always start by bringing in automated test execution tools as these tools have the greatest return on investment and therefore should be introduced first.

- C. Perform analysis of the test process and then assess whether it can be supported through the introduction of tool support.
- D. Allow the developers to select the testing tools because tools are technical and developers have the appropriate skills to advise on test tool selection and configuration.

Answer: C

NEW QUESTION 348

Which of the following would be appropriate test objectives for user acceptance testing of the first release of a new software product aimed at a general market and built using Agile methods? [K2]

- A. To identify as many defects as possible
- B. To maximise code coverage
- C. To ensure the product works as expected
- D. To assess the overall quality of the product
- E. To determine the reliability of the product
- F. b and c
- G. a and d
- H. b and e
- I. c and d

Answer: D

NEW QUESTION 349

What are metrics NOT used for?

- A. To identify the percentage of work done in test environment preparation.
- B. To identify the percentage of work done in test case preparation.
- C. To apply to the RAD development model.
- D. To measure whether dates of test milestones were met

Answer: C

NEW QUESTION 353

Of the following, select the best description of the fundamental test process:

- A. Planning and control, analysis, design, implementation, execution, evaluation of exit criteria and reporting, test closure.
- B. Executing tests, identifying and recording defects and preparing recommendation and closure reports.
- C. Controls, preparation of test cases, execution of test cases, execution of regression packs, communicating with developers, writing recommendations for release.
- D. Static testing, dynamic testing, defect reporting, reporting and closure

Answer: A

NEW QUESTION 358

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 a 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

Answer: B

NEW QUESTION 363

Testing effort can depend on a number of factors, which one of 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

Answer: C

NEW QUESTION 365

Which of the following is NOT a valid objective of testing?

- A. Preventing defects from being introduced into the code
- B. Investigating and fixing defects in the software under test
- C. Gaining confidence that the system is fit-for-purpose
- D. Providing information for stakeholders' decision making

Answer: D

NEW QUESTION 370

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

- A. Test Implementation and Execution
- B. Test Planning and Control
- C. Evaluating Exit Criteria and Reporting
- D. Test Analysis and Design

Answer: D

NEW QUESTION 374

A new testing tool has been selected for an organisation and a pilot project has successfully completed. The next step is to deploy the tool within the organization. What is a key success factor in tool deployment?

- A. Estimate a cost-benefit ratio based on a firm business case
- B. Determine whether benefits will be achieved at reasonable cost
- C. Provide support for the test team using the tool
- D. Assessment of organisational maturity, strengths and weaknesses

Answer: A

NEW QUESTION 378

Which of the following options explain why it is often beneficial to have an independent test function in an organisation?

- A. To improve defect finding during reviews and testing
- B. To ensure that developers adhere to coding standards
- C. To limit communication between developers and testers
- D. To provide better metrics for the stakeholders

Answer: D

NEW QUESTION 381

Which of the following options BEST explain 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

Answer: C

NEW QUESTION 386

A booking system for a city bus service prices its fares according to the time of travel:

- Peak-time tariff starts at 0600 and finishes at 1000 am
- Off-peak tariff applies during all other times of service
- The bus service does not operate between 2300 and the start of the next day's peak service Note that all times mentioned are inclusive.

When applying the equivalence partitioning test design technique, which of the following options, shows test case inputs that each fall into a different equivalence partition?

- A. 0600, 1000, 1200
- B. 1001, 1300, 2259
- C. 0100, 0800, 2200
- D. 2400, 1000, 2301

Answer: D

NEW QUESTION 391

A system requirement states that up to 100 users should be able to carry out a transaction, with responses returned within 5 seconds.

What type of non-functional testing would you carry out to verify these requirements?

- A. Stress testing
- B. Maintenance testing
- C. Load testing
- D. Usability testing

Answer: B

NEW QUESTION 392

Which one of the following statements about testing techniques is TRUE?

- A. Exploratory testing can replace black box techniques when testing time is very limited
- B. Test execution scheduling should give priority to experienced based testing
- C. Specification based techniques can be used as a substitute for a poorly defined test basis
- D. Experienced based techniques are systematic and produce detailed test documentation

Answer: A

NEW QUESTION 394

Which of the following is a defect that is more likely to be found by a static analysis tool than by other testing techniques?

- A. Omission of a major requirement
- B. Inadequate decision coverage
- C. Component memory leakage
- D. Variables that are not used improperly declared

Answer: D

NEW QUESTION 396

A garden irrigation system allows the user to specify 2 inputs:

1. Frequency - The number of times the system should be automatically switched on per day; minimum once per day, maximum 5 times
2. Duration - The duration of operation, in whole minutes, each time it is switched on; ranging from 1 to 60 Applying 2-value boundary value analysis which of the following options has the correct test set of valid and invalid boundary values?

- A. Frequency 1, 5; Duration 1, 60
- B. Frequency 0, 1, 5, 6; Duration 59 seconds, 1 minute, 60 minutes, 60 minutes 1 second
- C. Frequency 0, 1, 5, 6; Duration 0, 1, 30, 60, 61
- D. Frequency 0, 1, 2, 5, 6; Duration 0, 1, 30, 60, 61

Answer: B

NEW QUESTION 401

When can functional and structural testing BOTH be applied?

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

Answer: D

NEW QUESTION 406

Which of the following is a white-box test technique?

- A. Decision table testing
- B. Exploratory testing
- C. Statement testing
- D. Error guessing

Answer: C

NEW QUESTION 408

Which of the following would be a good test technique to use when under severe time pressure?

- A. Exploratory testing
- B. Structure based testing
- C. Specification based testing
- D. Use Case testing

Answer: B

NEW QUESTION 413

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

Answer: A

NEW QUESTION 417

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