



BH0-010

ISEB Certified Tester Foundation Level (2010 Syllabus)

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Question: 1

Which of the following statements are true in relation to component testing? Stubs may be used. May cover resource behaviour (e.g. memory leaks). Tests the interactions between software components. Defects are typically fixed without formally managing these defects.

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

Answer: B

Question: 2

Which of the following are the typical defects found by static analysis tools? Variables that are never used. Security vulnerabilities. Poor performance. Unreachable code. Business processes not followed.

- A. b, c and d are true; a and e are false
- B. a is true; b, c, d and e are false
- C. c, d and e are true; a and b are false
- D. a, b and d are true; c and e are false

Answer: D

Question: 3

Given the following sample of pseudo code: 01 Input number of male rabbits 02 Input number of female rabbits 03 If male rabbits > 0 and female rabbits > 0 then 04 Input Do you want to breed (Yes / No) 05 If breed = "No" 06 Print "Keep male and female rabbits apart!" 07 End if 08 End If. Which of the following test cases will ensure that statement "06" is executed?

- A. male rabbits = 1, female rabbits = 1, breed = "yes".
- B. male rabbits = 1, female rabbits = 1, breed = "no".
- C. male rabbits = 1, female rabbits = 2, breed = "yes".

D. male rabbits = 1, female rabbits = 0, breed = "no".

Answer: B

Question: 4

Which ADDITIONAL test level could be introduced into a standard V-model after system testing?

- A. System Integration Testing
- B. Acceptance Testing
- C. Regression Testing
- D. Component Integration Testing

Answer: A

Question: 5

A system under development contains complex calculations and decision logic, and it is assessed as high risk because of the relative inexperience of the development team in the application domain. Which of the following would be the MOST appropriate choice of test design technique for component testing?

- A. Decision testing.
- B. Statement testing
- C. State transition testing
- D. Equivalence partitioning

Answer: A

Question: 6

Four testers have each submitted an incident report in which each reported a problem with the User log-on process. User log-on is a critical component of the system. The table below describes the four defect reports submitted.

Tester ID	Incident description	Inputs/Expected and Actual results	Business Priority (1 high 2 medium 3 Low)
Tester 1	User log-on validation error	Entered User id of J SMITH and password of ABC01 but got an error message	1
Tester 2	Log-on does not meet requirement	Inputs: Entered valid user id and password Expected result - Main menu screen to be displayed Actual result: Error saying incorrect password	2
Tester 3	Log-on Password validation error	Inputs: User id = J SMITH, password = ABC01 Expected result - Main menu screen Actual result: Error message EM008 'Invalid password' This test has worked many times before	2
Tester 4	Password validation error	Inputs: User id = J SMITH, password = ABC01 Expected result - Main menu screen Actual result: EM008 'Invalid password' N.B the same inputs worked yesterday, before code release 1.2 was delivered	1

Which Tester has reported the incident MOST effectively, considering the information and priority they have supplied?

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

Answer: D

Question: 7

How is the scope of maintenance testing assessed?

- A. Scope is related to the risk, size of the changes and size of the system under test
- B. Scope is defined by the size and type of system being changed
- C. Scope is dependant on the amount of regression testing already performed
- D. Scope is related to the number of system users affected by the change.

Answer: A

Question: 8

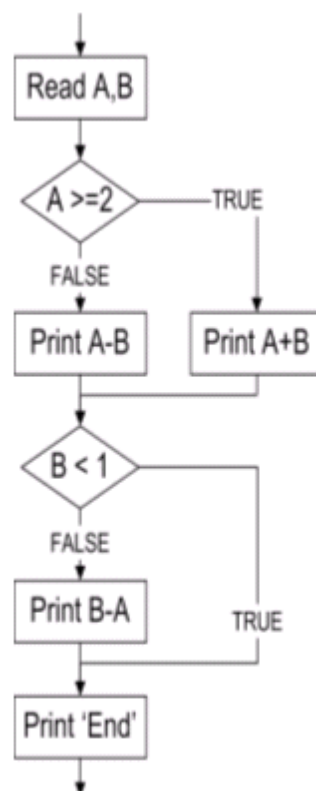
Which of the following is a MAJOR task of evaluating exit criteria and reporting?

- A. Writing a test summary report for stakeholders
- B. Logging the outcome of test execution
- C. Repeating test activities as a result of action taken for each discrepancy.
- D. Evaluating testability of the requirements and system

Answer: A

Question: 9

Given the following flow chart diagram:



What is the minimum number of test cases required for 100% statement coverage and 100% decision coverage, respectively?

- A. Statement Coverage = 1, Decision Coverage = 3.
- B. Statement Coverage = 2, Decision Coverage = 3.
- C. Statement Coverage = 2, Decision Coverage = 2.

D. Statement Coverage = 3, Decision Coverage = 3

Answer: C

Question: 10

Which ordering of the list below gives increasing levels of test independence? Tests designed by a fellow-member of the design team. Tests designed by a different group within the organisation. Tests designed by the code author. Tests designed by different organisation.

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

Answer: A

Question: 11

During which activity of the Fundamental Test Process test process do you review the test basis?

- A. Evaluating exit criteria and reporting.
- B. Test implementation and execution
- C. Test analysis and design
- D. Test planning and control

Answer: C

Question: 12

Which of the following are structure-based techniques? Decision table testing Boundary value analysis Multiple condition coverage Use case testing Decision testing

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

D. c and e.

Answer: D

Question: 13

Which statement BEST describes the role of testing?

- A. Testing ensures that the right version of code is delivered
- B. Testing can be used to assess quality.
- C. Testing shows that the software is error free.
- D. Testing improves quality in itself.

Answer: B

Question: 14

Test procedure ID	Business Severity (1 = High, 2 = Medium, 3 = Low)	Dependencies on other test procedures	Other dependencies
P	1	Cannot start until R has completed	
Q	1	None	Regression Testing only
R	2	None	None
S	2	None	None
T	3		Delivery of the code for this part of system is running very late
U	3	None	None

The above table shows 6 test procedures (P to U) that must now be entered into a test execution schedule. Business severity is regarded as the most important element in determining the sequence of the test procedures, but other dependencies must also be taken into consideration. Regression testing can only be run once all other tests have completed. Which of the following represents the MOST effective sequence for the test execution schedule (where the first entry in the sequence is the first procedure to be run, the second entry is the second to be run and so on)?

- A. Q, P, S, R, U, T.
- B. R, S, U, P, Q, T.
- C. R, P, S, U, T, Q.
- D. P, Q, R, S, U, T

Answer: C

Question: 15

Which one of the following is a characteristic of good testing in any lifecycle model?

- A. Each test level has the same test objective.
- B. There should be more testing activities than development activities.
- C. Test design can only begin when development is complete.
- D. Testers should begin to review documents as soon as drafts are available.

Answer: D

Question: 16

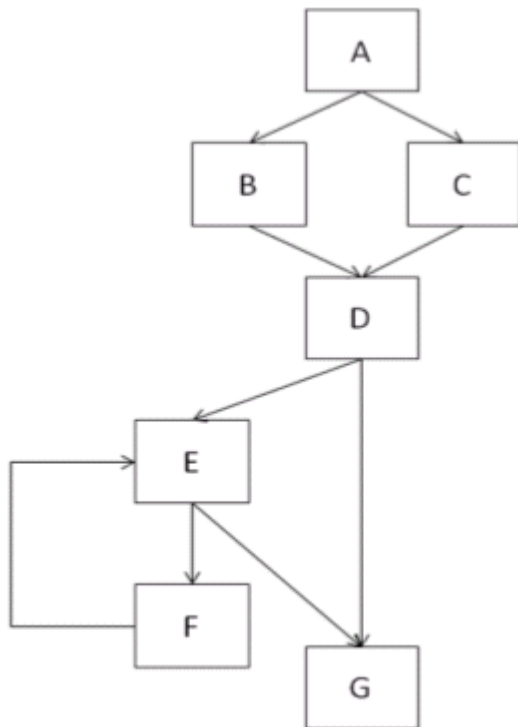
**Which tasks would USUALLY be performed by a test leader and which by the tester?
Adapt planning based on test results. Create test specifications. Plan tests. Write or review a test strategy**

- A. c and d by the test leader; a and b by the tester
- B. a and b by the test leader; c and d by the tester.
- C. a and d by the test leader; b and c by the tester
- D. a, c and d by the test leader; b by the tester.

Answer: D

Question: 17

The flow graph below shows the logic of a program for which 100% statement coverage and 100% decision coverage is required on exit from component testing.



The following test cases have been run: Test Case 1 covering path A, B, D, G Test Case 2 covering path A, B, D, E, F, E, F, E, F, E, G Test Case 3 covering path A, C, D, E, F, E, G Which of the following statements related to coverage is correct?

- A. Statement coverage is 100%; decision coverage is 100%.
- B. Statement coverage is less than 100%; decision coverage is 100%.
- C. Statement coverage is 100%; decision coverage is less than 100%.
- D. Statement coverage and decision coverage are both less than 100%.

Answer: A

Question: 18

Which of the following activities would improve how a tool is deployed within an organisation? Defining best practice guidelines for users. Roll out the tool across the organisation as quickly as possible to all users. Provide technical support to the test team for each type of tool. Introduce a system to monitor tool usage and user feedback. Ensure that the test process is not changed as result of the tool's introduction.

- A. a, b and c.

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

Answer: B

Question: 19

Which of the following statements is true?

- A. Testing cannot prove that software is incorrect.
- B. Testing can prove that software is either correct or incorrect.
- C. Testing cannot prove that software is correct.
- D. Testing can prove that software is correct.

Answer: C

Question: 20

Which of the following statements describe why experience-based test design techniques are useful? They can help derive test cases based on analysis of specification documents. They can identify tests not easily captured by formal techniques. They make good use of tester's knowledge, intuition and experience. They are an effective alternative to formal test design techniques.

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

Answer: D

Question: 21

Under what circumstances would you plan to perform maintenance testing? As part of a migration of an application from one platform to another. As part of a planned enhancement release. When the test scripts need to be updated. For data migration associated with the retirement of a system

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

Answer: C

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