ISEB ISEB-SWT2

ISTQB-ISEB Certified Tester Foundation Level
Version: 4.0

Topic 1, Volume A

QUESTION NO: 1

Given the following state table:

	On	Off	Channel 1	Channel 2	Channel >2	Stby
Standby	Live	N	N	N	N	N
Live	N	Standby	Display Channel 1	Display Channel 2	N	Standby
Display Channel 1	N	N	N	Display Channel 2	Live	Standby
Display Channel 2	N	N	Display Channel 1	N	Live	Standby

Which of the following represents an INVALID transition (N)?

A. Off from isplay Channel 1?
B. Channel 2 from Display Channel 1?
C. Stby from Live?
D. Channel 2 from Live?

Answer: A
Explanation:

QUESTION NO: 2

In which activity of the Fundamental Test Process is the test environment set up?

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

Answer: A
Explanation:

QUESTION NO: 3

Given the following decision table:

	Rule 1	Rule 2	Rule 3	Rule 4
Conditions				
Age	<21 yrs	21 - 29 yrs	30 – 50yrs	>50 yrs
Insurance Class	A	A or B	B, C or D	C or D
Actions				
Premium	£100	£90	£70	£70
Excess	£2,500	£2,500	£500	£1,000

Which of the following test cases and expected results is VALID?

A. 23 year old in insurance class A Premium is ?0 and excess is ?,500.
B. 51 year old in insurance class C Premium is ?0 and excess is ?00.
C. 31 year old in insurance class B Premium is ?0 and excess is ?,500.
D. 43 year old in insurance class C Premium is ?0 and excess is ?,000

Answer: A
Explanation:

QUESTION NO: 4

Which of the following are characteristic of test management tools?

a) They support traceability of tests to source documents.

b) They provide an interface to test execution tools.

c) They help to enforce coding standards.

d) They manipulate databases and files to set up test data.

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

Answer: C
Explanation:

QUESTION NO: 5

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
Explanation:

QUESTION NO: 6

Given the following flow chart diagram:
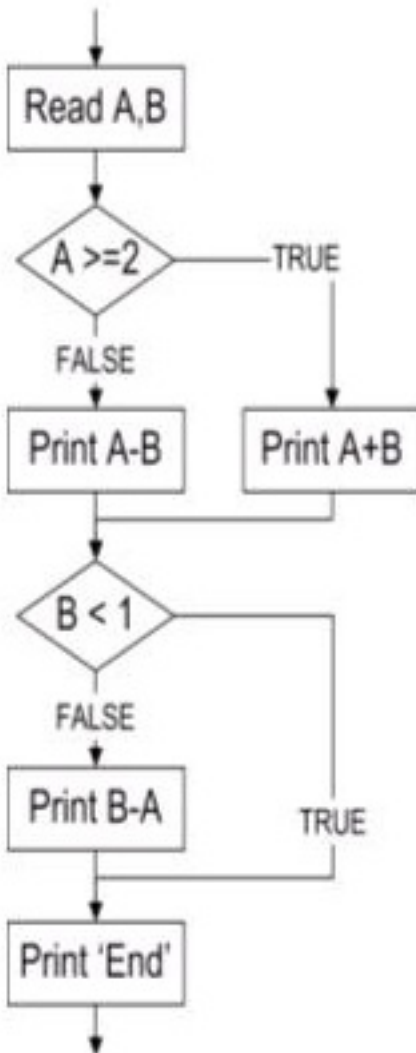
What is the minimum number of test cases required for 100% statement coverage and 100% decision coverage, respectively?

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
Explanation:

QUESTION NO: 7

Which of the following are structure-based techniques?

a) Decision table testing

b) Boundary value analysis

c) Multiple condition coverage

d) Use case testing

e) Decision testing

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

Answer: D
Explanation:

QUESTION NO: 8

The digital ainbow Thermometer uses 7 colours to show the ambient temperature. Each colour spans a range of just 5, with an operating minimum and maximum of minus 5 and 30. Which of the following values is minimum and maximum of minus 5? and 30?. Which of the following values is LEAST likely to have been identified when applying the boundary value test design technique?

A. 3030?
B. 00?
C. 8?8

D. 15 15?

Answer: C
Explanation:

QUESTION NO: 9

A system specification states that a particular field should accept alphabetical characters in either upper or lower case. Which of the following test cases is from an INVALID equivalence partition?

A. Feeds
B. F33ds
C. FEEDS
D. fEEDs

Answer: B
Explanation:

QUESTION NO: 10

Which of the following is an example of a product risk?

A. Software that does not perform its intended functions
B. Failure of a third party
C. Problems in defining the right requirements
D. Skill and staff shortages

Answer: A
Explanation:

QUESTION NO: 11

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
Explanation:

QUESTION NO: 12

Which of the following statements are true in relation to component testing?

a) Stubs may be used.

b)May cover resource behaviour (e.g. memory leaks).

c) Tests the interactions between software components.

d) 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
Explanation:

QUESTION NO: 13

Which tasks would USUALLY be performed by a test leader and which by the tester?

a) Adapt planning based on test results.

b) Create test specifications.

c) Plan tests.

d) 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.

Explanation:

QUESTION NO: 14

Pair the correct test design techniques (i to v) with the category of techniques (x, y and z):

 i)Exploratory Testing

ii)Equivalence Partitioning

iii)Decision Testing

iv)Use Case Testing

v)Condition coverage

x) Specification-based

y)Structure-based

z)Experienced-based

A. x = i and ii; y = iii and v; z = iv.
B. x = i, ii and iv; y = v; z = iii
C. x = ii and iv; y = iii and v; z = i.
D. x = iii and iv; y = v; z = i and ii.

Answer: C
Explanation:

QUESTION NO: 15

Which of the following activities should be performed during the selection and implementation of a testing tool?

a) Determine whether the organisation existing test process needs to change.

b) Conduct a proof of concept.

c) Implement the selected tool on a project behind schedule to save time.

d) Identify coaching and mentoring requirements for the use of the selected tool

A. a, b and c.

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

Answer: D
Explanation:

QUESTION NO: 16

Which one of the following is true of software development models?

A. There are always four test levels in the V-model.
B. In a Rapid Application Development (RAD) project, there are four test levels for each iteration.
C. In Agile development models, the number of test levels for an iteration can vary depending on the project.
D. There must be at least four test levels for any software development model.

Answer: C
Explanation:

QUESTION NO: 17

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
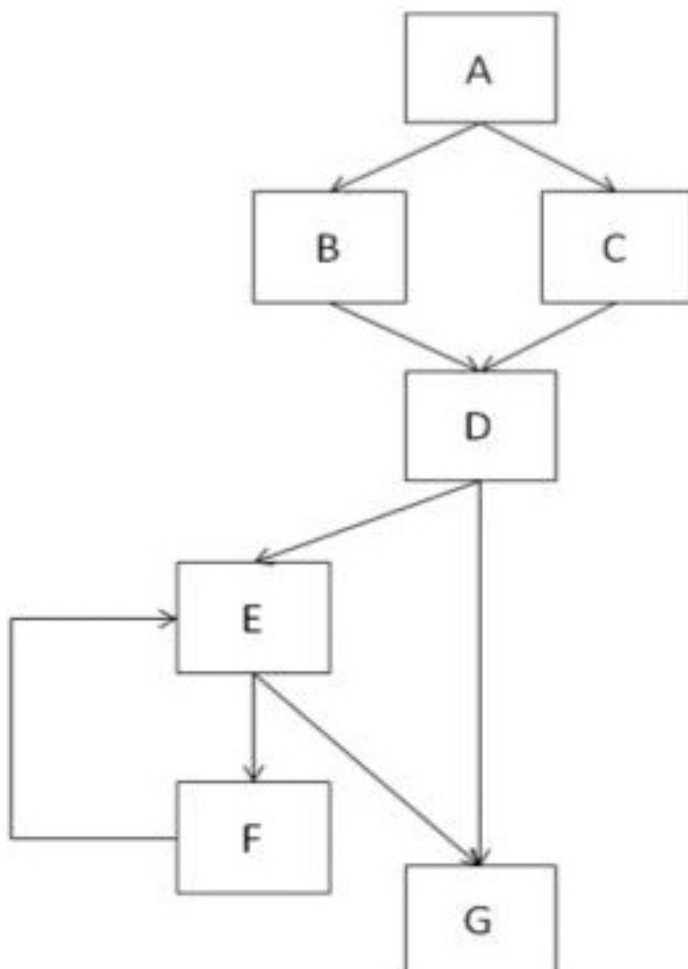
they have supplied?

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

Answer: D
Explanation:

QUESTION NO: 18

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