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 ABCD1 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

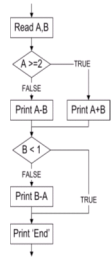## Question: 7

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

Read A,B

A >=2 — TRUE

FALSE

Print A-B   Print A+B

B < 1

FALSE

Print B-A   TRUE

Print 'End'

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

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

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