Question 1

For an ATM banking project introduced earlier, "When the user first inserts a valid credit card type, the system considers the user to be in an unauthenticated state. When requesting a cash advance, the user must be in an authenticated state. The user authenticates by entering the proper PIN code. When authenticating the user, the system shall allow the user to enter their PIN code up to three times before failing the authentication and rejecting the card. On the first and second try, the system shall prompt the user to re-enter the PIN code."

Suppose you are concerned that, depending on the exact number of invalid PIN codes entered, the system might behave improperly. Which of the following test design techniques is specifically targeted at such failures?

[K4] 3 credits

Options:

A- Equivalence Partitioning extended by boundary value analysis

B- Pairwise Testing with orthogonal arrays

C- State Transition Testing using 1-switch coverage

D- Classification Tree Method

Answer:

C

Question 2

Question Type: MultipleChoice

Which of the following statements is TRUE with respect to when the test analyst should become involved during different lifecycle models?

[K2] 1 credit

Options:

A- In a sequential V-model project the test analyst should start test analysis and design concurrently with coding

B- In Agile projects the test analyst should start test analysis and design concurrently with coding

C- In a sequential model project the test analyst should start test analysis and design concurrently with software design

D- In an embedded iterative model the test analyst should expect to be involved in the standard planning and design aspects

Answer:

D

Question 3

While identifying scenario's for the use case "copy A4 -- A4" for a new copier, the following scenario's were identified:

Basic scenario: single side to single side Deviations: single side to double side, copy of a set, copy using the automatic document feeder

Failures: no paper in paper tray, paper jam, out of staples

How many test cases will be needed to achieve minimum coverage?

[K3] 2 credits

Options:

A- 1

B- 4

C- 5

D- 7

Question 4

Question Type: MultipleChoice

A specification states: "If the fossil is Jurassic in origin then it must be catalogued under Mesozoic post Triassic and cross referred to politic limestone.

If it is a tooth, then it must be catalogued under Dental remains. If the fossil is both Jurassic in origin and a tooth it will be catalogued under Mesozoic post Triassic and cross referred to politic limestone only. "

The tester analyses this for decision table testing and finds the following conditions and actions:

C1: Jurassic C2: tooth A1: Catalogue as Mesozoic post Triassic A2: Cross refer to politic limestone A3: Catalogue as

Dental remains

How many test cases will a collapsed decision table have?

[K3] 2 credits

Options:

A- 2

B- 3

C- 4

D- 6

Answer:

B

Question 5

Question Type: MultipleChoice

A company offering house insurance policies has several policy options. They depend on the following factors:

-Building type: house, semi-detached, apartment building, cottage Material: wood, concrete, brick, mixed Location: city, suburb, countryside, wilderness It has been decided to use the pair wise test technique and apply 2-wise coverage. To design the test case an appropriate orthogonal array needs to be located. Which of the following orthogonal arrays is to be selected for testing the house insurance policies? [K3] 3 credits

Options:

A- Option A

	1	2	3
1	1	1	1
2	1	2	2
3	1	3	3
4	1	4	3
5	2	1	2
6	2	2	3
7	2	3	2
8	2	4	1
9	3	1	3
10	3	2	1
11	3	3	1
12	3	4	2

B- Option B

	1	2	3
1	1	1	1
2	1	2	2
3	1	3	3
4	1	4	3
5	2	1	2
6	2	2	3
7	2	3	2
8	2	4	1
9	3	1	3
10	3	2	1
11	3	3	1
12	3	4	2

C- Option C

	1	2	3
1	1	1	1
2	1	2	2
3	1	3	3
4	1	4	3
5	2	1	2
6	2	2	3
7	2	3	2
8	2	4	1
9	3	1	3
10	3	2	1
11	3	3	1
12	3	4	2

D- Option D

	1	2	3
1	1	1	1
2	1	2	2
3	1	3	3
4	1	4	3
5	2	1	2
6	2	2	3
7	2	3	2
8	2	4	1
9	3	1	3
10	3	2	1
11	3	3	1
12	3	4	2

Answer:

C

Question 6

Question Type: **MultipleChoice**

A car navigation system needs to be integrated in the overall car software. Interoperability testing is thus considered to be important. Which of the following techniques is most likely be used to support interoperability tests?

[K2] 1 credit

Options:

A- Equivalence Partitioning

B- Statement testing

C- Vulnerability Scan

D- Defect Taxonomies

Question 7

Question Type: **MultipleChoice**

During the test execution defects are found on non-compliancy to requirements, calculations that produce incorrect results, and improper handling of data or situations.

Which of the following test types is most likely being performed?

[K2] 1 credit

Options:

A- Usability testing

B- Interoperability testing

C- Accuracy testing

D- Suitability testing

Answer:

C

Question 8

Question Type: MultipleChoice

Consider the following description in a defect report "Nasty bug trashed contents of new file that I created by formatting some text in symbol font, wasting my time."

Which TWO of the following comments would you immediately make based on the defect description above?

[K4] 3 credits, 1 out of 2 correct 1 credit

Options:

A- Needs to be neutralized

B- Steps to reproduce are unclear

C- No attempt to isolate the defect

D- More than one defect in one report

E- Possible duplicate

Answer:

A, B

Question 9

You are applying pairwise testing and using orthogonal arrays. The following steps are all part of the process to be followed.

i) Determine the number of choices for each variable ii) Map the test problem onto the orthogonal array iii) Construct the test cases iv) Identify the variables v) Locate an appropriate orthogonal array

What is the correct order of the above mentioned process steps?

[K3] 2 credits

Options:

A- i, ii, iv, v, iii

B- iv, ii, v, iii, i

C- iv, i, iii, v, ii

D- iv, i, v, ii, iii

Answer:

D