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QUESTION 1

An embedded software company is considering to improve the quality of its software components to be delivered to the integration team. After studying various experience papers that report a higher level of quality for software components, two main alternative techniques are identified: static analysis and dynamic analysis. In deciding which one is most applicable and how they relate to each other a detailed study is performed. Which of the following are TWO key similarities between static analysis and dynamic analysis? 2 credits [K4]

Number of correct answers: 2

A. Both are performed using requirements as its major input document

B. Both are usually undertaken by integration testers

C. Both are usually undertaken by development during coding and unit testing

D. Both are related to reviews

E. Both usually use a tool

Correct Answer: CE

QUESTION 2

Scenario:

"Tax system" (Questions 52 – 53)
Due to new legislation the tax system needs to be updated. For a person that has a salary less than € 20.000, the tax needs to be re-calculated. If the person also has more than two children an additional 10% reduction is applicable.

For equivalence partitioning based on this specification, how many output classes can be determined? 2 credits [K3]

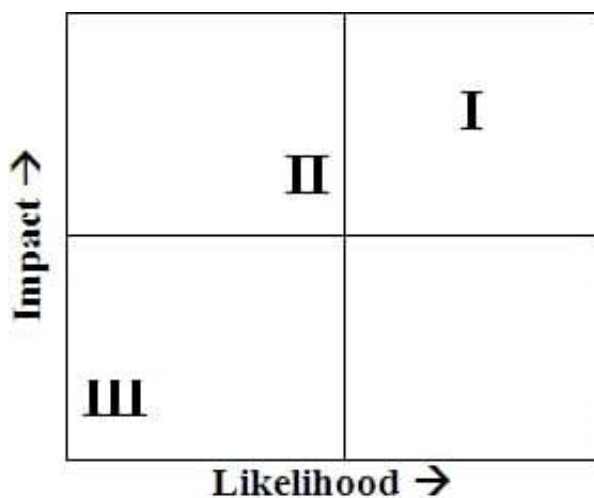|	1	2	3	4	5	6	7	8
C1	1	1	1	1	0	0	0	0
C2	1	1	0	0	1	1	0	0
C3	1	0	1	0	1	0	1	0
A1	X	X						
A2	X							

Number of correct answers: 1

A. 2

B. 3

C. 4

D. 5

Correct Answer: B

QUESTION 3

The result of a product risk analysis performed on components I, II and III of the airplane control system shows the following risk matrix:

The project wants to mitigate the risks by defining different types of coverage depending on the risk level of the components. Which of the following would be a meaningful solution for setting the coverage targets?2 credits [K3]

Number of correct answers: 1

A. I: Condition determination coverage, II: Decision Coverage, III: Statement coverage

B. I: Condition determination coverage, II: Statement coverage, III: Decision coverage

C. I: Decision coverage, II: Condition determination coverage, III: Statement Coverage

D. I: Multiple condition coverage, II: Decision coverage, III: Condition determination coverage

Correct Answer: A

QUESTION 4

What is the value of statement coverage achieved by test case 1 from test set A? 2 credits [K3] Number of correct answers: 1

A. ? 75% (21/28)

B. ? 78% (22/28)

C. ? 85% (24/28)

D. ? 90% (25/28)

Correct Answer: A

QUESTION 5

The application of multiple condition testing is also being considered.

Which specification-based technique is largely based on the principle of multiple condition testing? 1 credit

[K2]

Number of correct answers: 1

A. Equivalence Partitioning

B. State Transition Testing

C. Decision Table Testing

D. Use Cases

Correct Answer: C

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