

## Question: 1

Which of the following descriptions is an example of the use of defect taxonomies? Number of correct answers: 1  
[K2] 1 credit

- A. Grouping defects found in execution by functional areas
- B. Following a defect management process through testing
- C. Running tests with the aim of finding as many defects as possible
- D. Using a list of known defect types to penetrate the security of computer systems

**Answer: D**

## Question: 2

You are testing an ATM based on the following use case;

ATM start screen is showing

The user inserts card

The user types in PIN

The user selects 'cash with receipt'

The user selects € 50

The user selects 'no further service'

Expected results

The ATM provides €50 to the user

The ATM return the card and balance slip

The ATM clears the screen

The ATM returns to start menu In your test log which of the following could be noted as part of additional attention points? [K3] 2 credits

- A. Issues regarding time-behavior
- B. Issues regarding interoperability
- C. More test cases needed to achieve full coverage
- D. Expected results not clearly defined

**Answer: A**

## Question: 3

Tax system

A tax system needs to be updated due to new legislation. For a person with a salary of less than € 20.000 and who is married, the tax needs to be re-calculated. If the person also has more than two and less than five children, an additional 10% reduction is applicable.

Applying equivalence partitioning to the "Tax System" specification, which of the following set of equivalence classes is most effective in testing the processing the number of children?

[K3] 2 credits

- A. 2, 4 and 6 children
- B. 2, 4 and 5 children
- C. 1, 3 and 6 children
- D. 3, 4 and 6 children

**Question: 4**

Ken, an entrepreneur in Leeds finds the quality of the tea locally available so low, that he decides to research superior teas around the world. He decides to market, sell and distribute these superior teas via the web. His market strategy is to offer superior products on a well-designed website with graphics that are fast to load, has high availability, superior usability and fast response times.

The website will offer the following:

- An innovative interactive catalogue of teas, which not only enables customers to buy the product, but also enables them to provide feedback by rating the teas (which will influence his stock purchasing levels)

- Provide the customer with the ability to use secure credit card transactions

- Provide the customer to give general feedback

Ken selects an iterative model for the development of the prototypes. The team consists of three developers that are experienced in web development. Ken, although he doesn't have technical skillset, is concerned with quality. He doesn't believe a lot of documentation is necessary and he wants the website to be completed quickly.

The test basis contains the following:

- Story boards that show the information flow and page links through the site

- HTML pages developed to date.

- A statement of non-functional requirements.

With the strategy taking shape, Ken asks your advice on the specific testing techniques that should be used to complete the required testing, bearing in mind the nature of the application and the nature of Ken's overall objectives.

Which TWO of the following items may more frequently need to be explained in greater detail for non-functional defect reports than for a functional defect report?

[K2] 1 credit

- A. Expected results
- B. Steps to reproduce the defect
- C. Test data used to identify the fault
- D. Level of load on the system at the time of failure
- E. Actual results

**Answer: A,D****Question: 5**

A temperature unit holds the temperature between 10 degrees Celcius and -10 degrees Celcius. If the temperature drops below -10 or rises above 10 then an alarm rings. Boundary Value Analysis tests are drawn up using the approach of two test cases per boundary. The temperatures to be tested are:

[K3] 2 credits

- A. 11, 10, -11, -10
- B. 11, 10, 9, -11, -10, -9
- C. 11, 9, -9, -11
- D. 10, 9, -9, -10

**Answer: A**

## Question: 6

Using the “Tax System” specification scenario as described above, using boundary value analysis, which would be the most interesting test set to explicitly test one single boundary value as defined in the “Tax System” specification?

<i>Test set (i)</i>		
Civil Status	Salary	Number of Children
<i>Married</i>	<i>€ 20.000</i>	<i>4</i>
<i>Not Married</i>	<i>€ 22.000</i>	<i>3</i>
<i>Married</i>	<i>€ 18.000</i>	<i>2</i>
<i>Test set (ii)</i>		
Civil Status	Salary	Number of Children
<i>Not Married</i>	<i>€ 19.000</i>	<i>8</i>
<i>Not Married</i>	<i>€ 20.000</i>	<i>6</i>
<i>Married</i>	<i>€ 50.000</i>	<i>4</i>
<i>Test set (iii)</i>		
Civil Status	Salary	Number of Children
<i>Married</i>	<i>€ 20.000</i>	<i>10</i>
<i>Not Married</i>	<i>€ 22.000</i>	<i>5</i>
<i>Not Married</i>	<i>€ 20.001</i>	<i>0</i>
<i>Test set (iv)</i>		
Civil Status	Salary	Number of Children
<i>Not Married</i>	<i>€ 22.000</i>	<i>1</i>
<i>Not Married</i>	<i>€ 18.000</i>	<i>2</i>
<i>Married</i>	<i>€ 18.000</i>	<i>3</i>

[K3] 3 credits

- A. (i)
- B. (ii)
- C. (iii)
- D. (iv)

**Answer: D**