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Certified Tester Advanced Level - Test Analyst (CTAL-TA)

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**QUESTION 1**

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

A. i, ii, iv, v, iii

B. iv, ii, v, iii, i

C. iv, i, iii, v, ii

D. iv, i, v, ii, iii

Correct Answer: D

QUESTION 2

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?



Test set (i)		
Civil Status	Salary	Number of Children
Married	€ 20.000	4
Not Married	€ 22.000	3
Married	€ 18.000	2

Test set (ii)		
Civil Status	Salary	Number of Children
Not Married	€ 19.000	8
Not Married	€ 20.000	6
Married	€ 50.000	4

Test set (iii)		
Civil Status	Salary	Number of Children
Married	€ 20.000	10
Not Married	€ 22.000	5
Not Married	€ 20.001	0

Test set (iv)		
Civil Status	Salary	Number of Children
Not Married	€ 22.000	1
Not Married	€ 18.000	2
Married	€ 18.000	3

[K3] 3 credits

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

Correct Answer: D

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

Correct Answer: B

QUESTION 4

How many invalid test cases can be identified from the "Route Calculation" state table provided?

You may assume all actions are different and independent.

[K3] 3 credits

- A. 6
- B. 8
- C. 102
- D. 12

Correct Answer: A

QUESTION 5

You are testing the processing of a critical traffic control system to which various regulations apply. The processing of the input variables is dependent of defined ranges within which the actual retrieved data values can lie.

Which of the following test techniques will you use to the processing functionality of the traffic control system?

[K4] 3 credits

- A. defect taxonomies
- B. exploratory testing
- C. equivalence partitioning enhanced with boundary value analysis
- D. state transition testing

Correct Answer: C

**QUESTION 6**

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

Correct Answer: D

QUESTION 7

As a test analyst you are involved in the early stages of an acceptance test for a Product Data Management system. You are asked to write test designs and test cases based on use cases. An early version of the system is also already available. It is a known fact that on the implementation level many things will change (including the user-interface). The tests will be carried by end-users with much domain knowledge who have also been involved in the project defining the user requirements and reviewing documentation.

What is the BEST option regarding the level of detail and documentation required for test cases in the project?

[K4] 3 credits

- A. Detailed concrete test cases since many re-runs of the tests are expected
- B. Logical test cases supported by concrete test cases to allow for traceability and enable future changes
- C. Concrete test cases only since the end-users have extensive domain knowledge
- D. Logical test cases only since the end-user have extensive domain knowledge and many changes are expected thus reducing testware maintenance effort

Correct Answer: D

QUESTION 8

A diamond retailer is introducing a new stock taking system. Each diamond is assigned a character that represents the colour. The valid domain for the character ranges from D to Z. The colour is then graded using the following scale:

Which of the following test sets will provide the best equivalence partitioning coverage?

[K3] 2 credits

- A. D, F, G, H, K, M, N, P, T, Z
- B. D, G, K, N, S
- C. A, E, H, L, P, T, ?



D, E, H, L, M, U,

Correct Answer: C

QUESTION 9

As part of defining an approach the usability, acceptance criteria need to be defined. Which of the following acceptance criteria would be appropriate for operability? [K4] 3 credits

- A. Percentage of participants who completed each task correctly
- B. Mean extent to which each task was completely and correctly achieved, scored as a percentage
- C. Mean time taken to complete each task (for correctly completed tasks)
- D. SUMI user satisfaction score

Correct Answer: C

QUESTION 10

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.

We now make the assumption that in the scenario described as above, exploratory testing was selected as being the main test technique. You have now been given the task of specifying, executing and recording the exploratory test sessions.

Select TWO of the options below to define what you will typically use for specifying, executing and recording the sessions?

[K3] 2 credits

A.

Record the results in email and send the email to the test manager.

B.

Use external testers on the team to provide a new approach and fresh view to the testing effort.

C.

Create test charters for planned test session.

D.

Use debriefing sessions with stakeholders and other testers to discuss the findings and new risks identified.

E.

Define concrete test cases to be executed by the developers.

Correct Answer: CD

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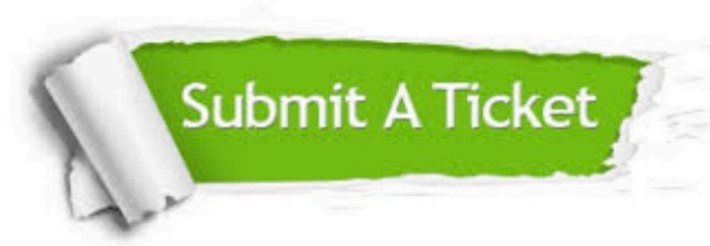
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