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Advanced Test Analyst

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**QUESTION 1**

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

**QUESTION 2**

Which of the following statements fits the principles of experience-based testing? [K2] 1 credit

- A. Coverage calculations can be used to determine the amount of testing required
- B. Different people will have a different experience level regarding usability testing
- C. Models can be used to derive the required test cases
- D. Experience in test execution is more important than experience in test design

Correct Answer: D

QUESTION 3

Which of the following tasks and responsibilities do NOT belong to that of a test analyst in the context of evaluating exit criteria and reporting? [K2] 1 credit

- A. The test analyst should be able to use the reporting tools
- B. The test analyst is responsible for supplying accurate information
- C. The test analyst will contribute to the final report at the end of the testing
- D. The test analyst should write final test reports objectively

Correct Answer: D

QUESTION 4

Apart from state transition testing, which other specification-based technique would you additionally choose to test the interfaces between components of "Route Calculation" and thus typically find different types of defects? Identify the MOST likely technique from the following list. [K4] 3 credits

- A. Equivalence Partitioning
- B. Use Case Testing
- C. Orthogonal Arrays
- D. Decision Testing

Correct Answer: A

QUESTION 5

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)

Correct Answer: D

**QUESTION 6**

Which of the following is a type of testing that someone in the role of a test analyst, working with the test manager, should typically consider and plan for? [K2] 1 credit

- A. Security testing
- B. Reliability testing
- C. Accessibility testing
- D. Performance testing

Correct Answer: C

QUESTION 7

A temperature unit holds the temperature between 10 degrees Celcius and 20 degrees Celcius. If the temperature drops below 20 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

Correct Answer: A

QUESTION 8

Supercar is an online vehicle sales website specializing in a single manufacturer's Sports Utility Vehicles (SUVs) and saloons. A vehicle has two key elements, power unit and body style.

The manufacturer offers three choices of power unit: petrol, diesel and hybrid. There are 3 main body styles: Saloon, Hatchback and SUV. SUVs only come as petrol and diesel options. Hybrid is available for Hatchback only. The site will allow an order to be processed if at least one of the chosen vehicle configuration is in stock, otherwise a message will be displayed asking the user to try again later. As a tester you are asked to review the "Supercar" specification before starting to design the corresponding test cases. Which of the comments below would you make? [K3] 2 credits

- A. I have no comments, specification looks ok
- B. Boundaries for stock levels are ambiguous
- C. Dependencies power unit and body styles are ambiguous
- D. It is not clear which message will be displayed when "out of stock"

Correct Answer: D

**QUESTION 9**

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. How many input classes can be distinguished when applying equivalence partitioning to the "Tax System" specification? [K3] 2 credits

B. 6

C. 7

D. 8

Correct Answer: B

QUESTION 10

You are a test analyst in the banking domain. You have received the following requirement: "The system shall allow cash advances of at least 200 Euros for all supported credit cards. The correct list of credit cards is American Express, Diners, VISA, Mastercard and Eurocard. Which one of the findings described below is true regarding this requirement? [K3] 2 credits

A. The requirement is ambiguous in terms of supported cards

B. The paragraph indicates potential performance problems

C. The paragraph is unclear in terms of advance limits

D. The paragraph indicates potential usability problems

Correct Answer: C

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