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Advanced Test Analyst

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QUESTION 1

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 2

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

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

Correct Answer: C

QUESTION 3

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

Correct Answer: AD

QUESTION 4

A route calculation for a car navigation system has been developed using the following state table: How many test cases are needed to achieve 0-switch coverage? [K3] 2 credits

	Position	Velocity	Updated	No Signal
Displaying	Calculating	Calculating	-	Error
Calculating	-	-	Displaying	Error
Error	Calculating	-	-	-

A. 3

B. 6

C. 7

D. 12

Correct Answer: B

QUESTION 5

Which of the following is a typical work product that the Test Analyst would deliver as part of the test closure activities? [K2] 1 credit

A. A list of all deferred defects

B. A list of all rejected defect reports

C. A list of all defects found in production and fixed in this release

D. A list of all resolved defects

Correct Answer: A

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