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QUESTION 1

While identifying scenarios for the use case "copy A4 ?A4" for a new copier, the following scenarios were identified: Basic scenario: single side to single side Deviations: single side to double side, copy of a set, copy using the automatic document feeder Failures: no paper in paper tray, paper jam, out of staples How many test cases will be needed to achieve minimum coverage? [K3] 2 credits

- A. 1
- B. 4
- C. 5
- D. 7

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

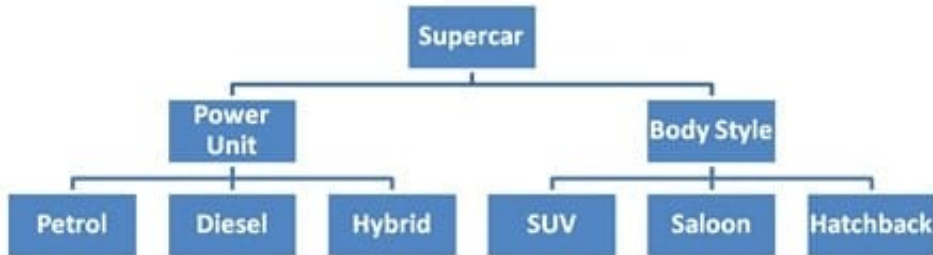
Tax system A tax system needs to be updated due to new legislation. For a person with a salary of less than 20,000 and who is married, the tax needs to be re-calculated. If the person also has more than two and less than five children, an additional 10% reduction is applicable. Applying equivalence partitioning to the "Tax System" specification, which of the following set of equivalence classes is most effective in testing the processing of 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

Study the "Supercar" classification tree, which of the following statements is correct?



[K3] 2 credits

- A. The classification tree is correct and complete
- B. The options for "in stock" are missing
- C. Order information is missing
- D. The error message is missing

Correct Answer: B

QUESTION 5

A company wants to develop a web site to implement an on-line sales channel. The company has decided to do some usability testing, but resources are limited. The usability testing has therefore to be done as efficient as possible. Which THREE techniques would you recommend? [K4] 3 credits, 2 out of 3 correct 1 credit

- A. SUMI
- B. Usability laboratory
- C. Use case testing
- D. Heuristic evaluation
- E. Equivalence partitioning
- F. Pairwise testing
- G. Exploratory testing

Correct Answer: ACD