



# TA12<sup>Q&As</sup>

ISTQB-BCS Certified Tester Advanced Level- Test Analyst (2012)

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**QUESTION 1**

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

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**QUESTION 2**

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

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**QUESTION 3**

As a test analyst you are gathering data to support accurate metrics. Which of the following metrics would be MOST appropriate to use to monitor product quality? [K2] 1 credit

- A. Defects found versus defects expected
- B. Tests run and tests passed
- C. Test resources spent versus budget
- D. Compliance to entry criteria
- E. Product risks outstanding and new risks introduced



Correct Answer: ABE

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#### QUESTION 4

A specification states: "If the fossil is Jurassic in origin then it must be catalogued under Mesozoic post Triassic and cross referred to politic limestone. If it is a tooth, then it must be catalogued under Dental remains. If the fossil is both Jurassic in origin and a tooth it will be catalogued under Mesozoic post Triassic and cross referred to politic limestone only. " The tester analyses this for decision table testing and finds the following conditions and actions: C1: Jurassic C2: tooth A1: Catalogue as Mesozoic post Triassic A2: Cross refer to politic limestone A3: Catalogue as

Dental remains How many test cases will a collapsed decision table have? [K3] 2 credits

- A. 2
- B. 3
- C. 4
- D. 6

Correct Answer: B

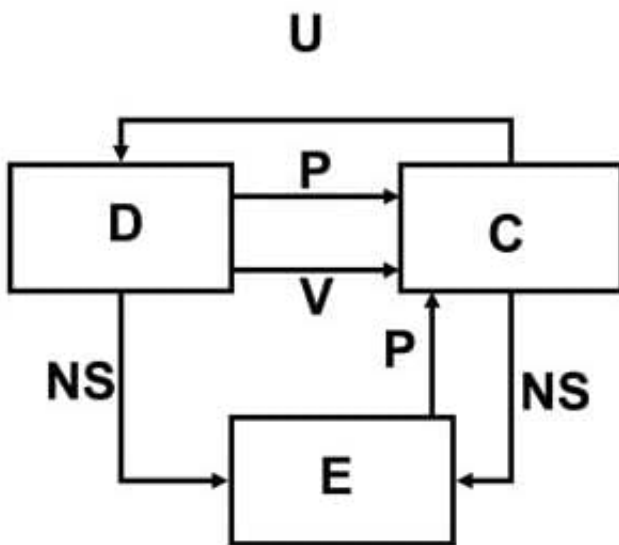
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#### QUESTION 5

Using the state diagram (based on the "Route Calculator"), how many test cases are needed to achieve 1switch coverage?



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



[K3] 3 credits

- A. 9
- B. 10
- C. 11
- D. 12

Correct Answer: D

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