



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

BCS TA12

Total Questions: 10
Version Demo

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Topic Break Down

Topic	No. of Questions
Topic 1, Test Process	8
Topic 2, Test Management	3
Topic 3, Specification-Based Test Techniques	26
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QUESTION NO: 1 - (Topic 3)

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

Answer: D

QUESTION NO: 2 - (Topic 1)

What is the MOST important reason why test conditions should be understandable by stakeholders?

[K2] 1 credit

- A. They should be able to review the test conditions and provide feedback to the test analyst
- B. They should be able to use them as a basis for designing test cases
- C. They should be able to use them to establish traceability to requirements
- D. Test documentation should always be understandable by all stakeholders

Answer: A

QUESTION NO: 3 - (Topic 3)

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?

Colour	D-F	G-J	K-M	N-R	S-Z
Grade	Colourless	Near Colourless	Faint yellow	Very light yellow	Light yellow

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

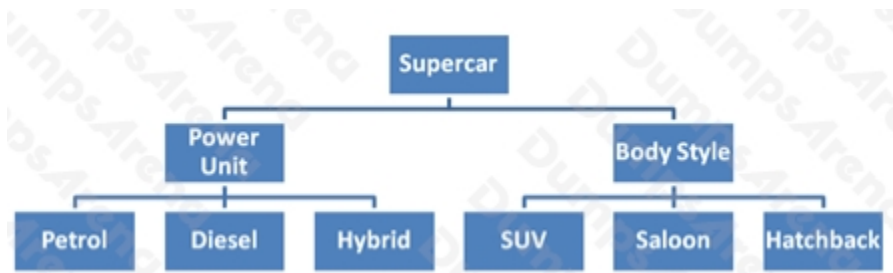
Answer: A

QUESTION NO: 4 - (Topic 3)

Supercar

Supercar is an online vehicle sales website specializing in 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 the chosen vehicle configurations are in stock, otherwise a message will be displayed asking the user to try again later.

Based on the specification the following classification tree has been developed:



Based on the “Supercar” classification tree the following positive test cases have been created:

Test case	Power Unit	Body Style
1	Petrol	SUV
2	Diesel	Saloon
3	Petrol	Hatchback

Which test case is needed to complete the set?

[K3] 2 credits

- A. Power Unit: Hybrid, Body Style: Saloon
- B. Power Unit: Diesel, Body Style: Hatchback
- C. Power Unit: Petrol, Body Style: Saloon
- D. Power Unit: Hybrid, Body Style: Hatchback

Answer: D

Topic 5, Testing Software Quality Characteristics

QUESTION NO: 5 - (Topic 3)

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

Answer: C

QUESTION NO: 6 - (Topic 1)

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

Answer: A, B, E

QUESTION NO: 7 - (Topic 1)

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

Answer: D

QUESTION NO: 8 - (Topic 1)

Which of the following statements is TRUE with respect to when the test analyst should become involved during different lifecycle models?

[K2] 1 credit

- A. In a sequential V-model project the test analyst should start test analysis and design concurrently with coding
- B. In Agile projects the test analyst should start test analysis and design concurrently with coding
- C. In a sequential model project the test analyst should start test analysis and design concurrently with software design
- D. In an embedded iterative model the test analyst should expect to be involved in the standard planning and design aspects

Answer: D

QUESTION NO: 9 - (Topic 4)

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

Answer: C

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