

# CTAL-TTA\_001<sup>Q&As</sup>

ISTQB Certified Tester Advanced Level - Technical Test Analyst

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**QUESTION 1**

What is the theoretical maximum level of switch coverage that can be achieved for the state diagram above?

1 credit [K2]

Number of correct answers: 1

- A. 4
- B. 5
- C. 6
- D. 7

Correct Answer: B

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**QUESTION 2**

Which of the following is the best example of a reliability failure for the application? 1 credit [K2] Number of correct answers: 1

- A. Slow response time
- B. Excessive memory consumption
- C. Random application termination
- D. Failure to encrypt data

Correct Answer: C

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**QUESTION 3**

How many test cases would be needed to achieve 100% decision coverage? 1 credit [K2] Number of correct answers: 1

- A. 1
- B. 2
- C. 3
- D. 4

Correct Answer: A

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**QUESTION 4**

As a technical test analyst, you have found out during test case design that the design document is incomplete. Which is an example of a good way to communicate that problem in an email? 1 credit [K2]

Number of correct answers: 1

- A. E-mail: "Until I have received an updated version of the design document, I will not do any work on the test design."
- B. E-mail: "When will it be possible to receive the missing information? Test design is impeded by a lack of clarity here."
- C. E-mail: "Here we go again. The developer gave us incomplete and ambiguous design specifications. Typical."
- D. Do not communicate the problem, just log the delaying effect of the information problem and be ready to explain the delays to the test manager later.

Correct Answer: B

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**QUESTION 5**

Definition-use pairs are identified during which of the following static analysis activities? 1 credit [K2] Number of correct answers: 1

- A. Control flow analysis
- B. Data flow activities
- C. Coding standards analysis
- D. Cyclomatic complexity analysis

Correct Answer: B

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**QUESTION 6**

Exhibit:

**Questions 63 - 65**

A test team is keeping logs of the incidents that they observe. They use a commonly-available word processor to write the incident reports in individual file, which are held in shared storage. They track the incidents along with some incident details, in a spreadsheet.

Identify the most significant risk introduced by this approach to incident management. 3 credits [K4] Number of correct answers: 1

- A. Excel list may not be in synchronisation with Word documents
- B. Low level of usability

- C. Spreadsheet/text files may not be complete
- D. Does not map to IEEE 1044

Correct Answer: A

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#### QUESTION 7

You have tested the program and have found that with "bonus" a boundary value has not been implemented according to design. You have written an incident report. Which of the following is the incident report of the highest quality? 2 credits [K3]

Number of correct answers: 1

- A. Description: Boundary value not correctly implemented Priority: High Repeatability: Yes Tester: WVU Test case: 35 (test specification "bonus program"), V1.2
- B. Description: Boundary value not correctly implemented for bonus Priority: Medium Tester: WVU Test case: 35 (test specification "bonus program")
- C. Description: Boundary value not correctly implemented for bonus (line 26: 10 according to design, now 5 implemented) Priority: High Repeatability: Yes Tester: WVU Test case: 35 (test specification "bonus program"), V1.2
- D. Description: Boundary value not correctly implemented for bonus Priority: High Repeatability: Yes Tester: WVU Test case: 35 (test specification "bonus program"), V1.2

Correct Answer: C

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#### QUESTION 8

Which of the following is a dynamic analysis technique related to improving application performance? 1 credit [K2]

Number of correct answers: 1

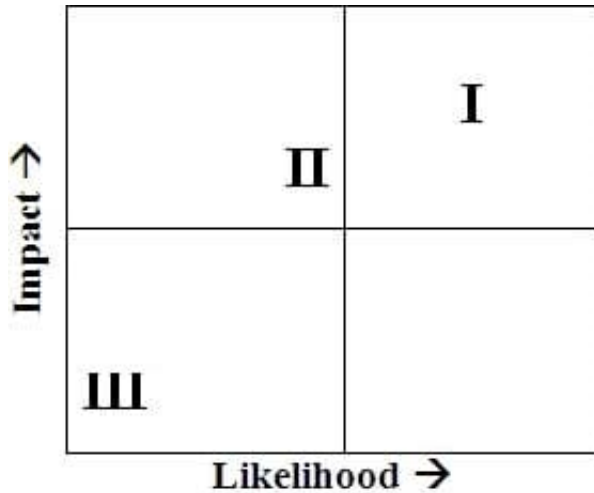
- A. Code complexity analysis
- B. Profiling
- C. Network package sniffing
- D. Spelling and grammar checking

Correct Answer: B

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#### QUESTION 9

The result of a product risk analysis performed on components I, II and III of the airplane control system shows the following risk matrix:



The project wants to mitigate the risks by defining different types of coverage depending on the risk level of the components. Which of the following would be a meaningful solution for setting the coverage targets? 2 credits [K3]

Number of correct answers: 1

- A. I: Condition determination coverage, II: Decision Coverage, III: Statement coverage
- B. I: Condition determination coverage, II: Statement coverage, III: Decision coverage
- C. I: Decision coverage, II: Condition determination coverage, III: Statement Coverage
- D. I: Multiple condition coverage, II: Decision coverage, III: Condition determination coverage

Correct Answer: A

**QUESTION 10**

It has been suggested to organise a performance test to find out more regarding the third risk. Which of the following would you use to quantify the situation and as a basis for defining a performance exit criteria? 2 credits [K3]

Number of correct answers: 1

- A. Defect analysis time
- B. Change parameter success ratio
- C. Number of errors made by the user
- D. Time to perform the function

Correct Answer: D

**QUESTION 11**

When performing code reviews, which of the following defect types will be most difficult to find? 1 credit [K2]

Number of correct answers: 1

- A. Dead code
- B. Variable used that is not defined
- C. Memory issues
- D. Conformance to design

Correct Answer: C

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#### QUESTION 12

For the control flow, what is the correct labelling? 1 credit [K2] Number of correct answers: 1 i ii iii

- A. NodesLinkRegion
- B. NodesRegionLink
- C. RegionLink Nodes
- D. RegionNodesLink

Correct Answer: A

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#### QUESTION 13

An embedded software company is considering to improve the quality of its software components to be delivered to the integration team. After studying various experience papers that report a higher level of quality for software components, two main alternative techniques are identified: static analysis and dynamic analysis. In deciding which one is most applicable and how they relate to each other a detailed study is performed. Which of the following are TWO key similarities between static analysis and dynamic analysis? 2 credits [K4]

Number of correct answers: 2

- A. Both are performed using requirements as its major input document
- B. Both are usually undertaken by integration testers
- C. Both are usually undertaken by development during coding and unit testing
- D. Both are related to reviews
- E. Both usually use a tool

Correct Answer: CE

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#### QUESTION 14

The application of multiple condition testing is also being considered.

Which specification-based technique is largely based on the principle of multiple condition testing? 1 credit

[K2]

Number of correct answers: 1

- A. Equivalence Partitioning
- B. State Transition Testing
- C. Decision Table Testing
- D. Use Cases

Correct Answer: C

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#### QUESTION 15

What are the TWO most significant benefits a test execution tool should bring to the organisation? 1 credit [K2]

Number of correct answers: 2

- A. Less expensive and time consuming regression testing
- B. More structured incident management
- C. Improved control and monitoring
- D. Visibility on test coverage
- E. More coverage during regression testing

Correct Answer: AE

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