CTAL-TTA_001 Q&As

ISTQB Certified Tester Advanced Level - Technical Test Analyst

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QUESTION 1

At which test level would performance testing most likely be performed? 1 credit [K2] Number of correct answers: 1

A. Component Testing

B. Integration Testing

C. System Testing

D. User Acceptance Testing

Correct Answer: C

QUESTION 2

Which TWO additional structure-based test design techniques could be used to dynamically test the code? 1 credit [K2]

Number of correct answers: 2

A. Condition testing

B. Multiple condition testing

C. Equivalence partitioning

D. Cause/effect graphing

E. Code reviews

Correct Answer: AB

QUESTION 3

Select TWO solutions how the team could achieve significant benefits in the use of this tool within the next 6 months? (3 credits, for 1 out of 2 correct 1 credit) 3 credits [K4]

Number of correct answers: 2 A. Introduce data-driven or keyword driven scripting techniques

B. Change the development process

C. Select and implement a test management tool to complement the test suite

D. Identify critical parts of the system and concentrate on automating some of those tests for that particular area

E. Get business testers involved in the automation process

Correct Answer: AD

QUESTION 4

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

QUESTION 5

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

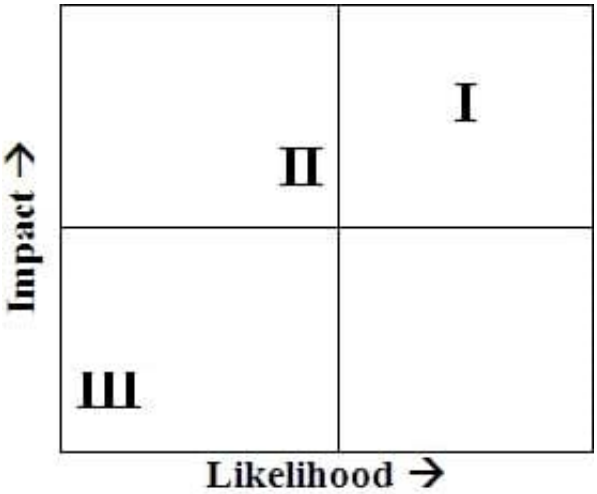
C. Decision Table Testing

D. Use Cases

Correct Answer: C

QUESTION 6

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 7

What is the number of nested levels for the code fragment?

2 credits [K3]

Number of correct answers: 1

A. 0

B. 1

C. 2

D. 3

Correct Answer: C

QUESTION 8

Consider the following fault attack: "Force all possible incoming errors from the software/OS interfaces to the

application". Which of the following is the kind of failure you are looking for when using this attack? 1 credit [K2]

Number of correct answers: 1

A. Application crashes when unsupported characters are pasted into an input field using the windows

clipboard

B. Front page of the application has incorrect spelling of the company name

C. Application fails to display financial numbers in the correct currency format in reports

D. Application miscalculates total monthly balance due on credit cards

Correct Answer: A

QUESTION 9

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

A. 1

B. 2

C. 3

D. 4

Correct Answer: A

QUESTION 10

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

QUESTION 11

During code reviews, it is the author\\'s responsibility...1 credit [K2] Number of correct answers: 1

A. to address all major and minor defects as stated in the defect log

B. to fix all major and minor defects as stated in the defect log

C. to take action on only improvement suggestions from the defect log

D. to correct source documents that have major defects

Correct Answer: A

QUESTION 12

Consider the following code fragment If (a>b) and (b>c) then b = (a+c)/2 endif Assume that in the following options, each of the three numbers in parenthesis represent the inputs for a

test case, where the first number represents variable "a", the second number represents variable "b", and

the third number represents variable "c".

Which of the following gives a set of test case inputs that achieves 100% decision coverage for this

fragment of code with the minimum number of test cases? 2 credits [K3]

Number of correct answers: 1

A. (5, 3, 2)

B. (5, 3, 2); (5, 4, 0)

C. (5, 4, 0); (4, 5, 0)

D. (4, 5, 0); (5, 4, 5)

Correct Answer: C

QUESTION 13

Which TWO of the following artefacts can be useful as a test oracle the first time a test case is run? 1 credit [K2]

Number of correct answers: 2

A. Incident report

B. Requirements Specification

C. Test summary report

D. Legacy system

E. Test plan

Correct Answer: BD

QUESTION 14

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

QUESTION 15

In which of the following test documents would you expect to find the preconditions to start executing a set of test cases?1 credit [K2]

Number of correct answers: 1

A. Level test plan

B. Test procedure specification

C. Test design specification

D. Master test plan

Correct Answer: B

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