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Vendor:ISQI

Exam Code:CTAL-TTA_001

Exam Name:ISTQB Certified Tester Advanced Level -
Technical Test Analyst

Version:Demo

QUESTION 1

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 2

The comment frequency of the code fragment is 13%. To which ISO 9126 quality attribute does a good level of comment frequency especially contribute? 1 credit [K2]

Number of correct answers: 1

- A. Portability
- B. Maintainability
- C. Usability
- D. Efficiency

Correct Answer: A

QUESTION 3

scenario:

“Tax system” (Questions 52– 53)

Due to new legislation the tax system needs to be updated. For a person that has a salary less than € 20.000, the tax needs to be re-calculated. If the person also has more than two children an additional 10% reduction is applicable.

For equivalence partitioning based on this specification, how many input classes can be determined? 2 credits [K3]

	1	2	3	4	5	6	7	8
C1	1	1	1	1	0	0	0	0
C2	1	1	0	0	1	1	0	0
C3	1	0	1	0	1	0	1	0
A1	X	X						
A2	X							

Number of correct answers: 1

- A. 4
- B. 5
- C. 6
- D. 8

Correct Answer: A

QUESTION 4

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

QUESTION 5

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 6

Based on the state diagram above, how many test cases are needed to achieve 1-switch coverage? 2 credits [K3]

Number of correct answers: 1

- A. 5
- B. 7
- C. 8
- D. 9

Correct Answer: C

QUESTION 7

Which of the following is an example of testing as part of the software design phase? 1 credit [K2] Number of correct answers: 1

- A. A design review meeting
- B. An architect translating requirements into design
- C. Performing unit tests against design
- D. A test log showing code coverage achieved

Correct Answer: A

QUESTION 8

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

QUESTION 9

Defects are discovered through test analysis and design because... 1 credit [K2] Number of correct answers: 1

A. the tasks involve extracting information from the test basis

B. developers are involved in writing test cases

C. the cost of fixing a defect will increase if found later on

D. the author of the test basis will have made errors

Correct Answer: A

QUESTION 10

As part of a risk analysis, technical risks are analyzed. Which TWO factors influence technical risk? 1 credit [K2]

Number of correct answers: 2

A. Complexity of technology

B. Frequency of use of the affected failure

C. Interfacing and integration issues

D. Damage to image

E. Lack of reasonable workaround

Correct Answer: AC

QUESTION 11

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

QUESTION 12

To address the second risk mentioned in the scenario, security testing will be performed. Which test techniques would be most applicable for security testing? 1 credit [K2]

Number of correct answers: 1

- A. Boundary Value Analysis
- B. Statement Testing
- C. Use Cases
- D. Fault Attacks

Correct Answer: D