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QUESTION 1

The development manager asks you to identify suitable test coverage entry criteria for a component test. Which TWO of the following would you recommend as appropriate for entry criteria to a component testing phase? 2 credits [K3]

Number of correct answers: 2

A. 100% statement coverage

B. No critical outstanding defects

C. Test log available

D. Code review completed

E. Static analysis shows no major violations

Correct Answer: DE

QUESTION 2

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 3

A new web site has been launched for a conference organisation. There are a number of links to other related websites for information purposes. Customers like the new site but complaints are being made that some (not all) of the links to other sites do not work. 1 credit [K2]

Number of correct answers: 1

A. Performance tool

B. Hyperlink tool

C. Usability testing tool

D. Static analysis tool

Correct Answer: B

QUESTION 4

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 5

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

QUESTION 6

A developer has spent three days looking at a system that crashes now and then. The problem was caused by two coding faults:

A. A variable was being used but had not been defined; ii.There was a `goto\\' statement to an undefined label 1 credit [K2] Number of correct answers: 1

B. Static analysis tool

C. Code coverage tool

D. Dynamic analysis tool

E. Test execution tool

Correct Answer: A

QUESTION 7

If we say that a set of tests has achieved 100% structural decision coverage on a particular module in a

program, what does that mean?

1 credit [K2]

Number of correct answers: 1

A. That all bugs present in that module were necessarily revealed by those tests.

B. That every control flow branch had been executed at least once by those tests.

C. That every dataflow in that module was exercised at least once by those tests.

D. That every path through that module was exercised at least once by those tests.

Correct Answer: B

QUESTION 8

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 9

What are the TWO most significant pitfalls the organisation should be aware of?1 credit [K2] Number of correct answers: 2

A. Lack of good process as a baseline

B. Cost of maintenance of test scripts

C. Test management will become more time-consuming

D. Need to train testers and gain skills

E. Coverage measurements are often difficult

Correct Answer: BD

QUESTION 10

You are testing a set of signal changes at a railway station. The system is newly build using a traditional V-model approach. A full set of documentation is available that can be used as a test basis. Furthermore the system is identified as being safety critical. Which technique would you most likely use?2 credits [K4]

Number of correct answers: 1

A. Equivalence Partitioning

B. Exploratory Testing

C. State transition Testing

D. Boundary Value Analysis

Correct Answer: C

QUESTION 11

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

QUESTION 12

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 13

Based on the state diagram above, how many invalid test cases could be identified in a state table? 2 credits [K3]

Number of correct answers: 1

A. 10

B. 12

C. 14

D. 15

Correct Answer: A

QUESTION 14

A component has been analyzed as being highly critical. Which of the following structure- based test design techniques provides the highest level of coverage? 1 credit [K2]

Number of correct answers: 1

A. Statement testing

B. Decision testing

C. Condition determination testing

D. Multiple condition testing

Correct Answer: C

QUESTION 15

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