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QUESTION 1

As a technical test analyst, you are involved in a risk analysis session using the Failure Mode and Effect Analysis technique. You are calculating risk priorities. Which of the following are the major factors in this exercise? 1 credit [K2]

Number of correct answers: 1

- A. Severity and priority
- B. Functionality, reliability, usability, maintainability, efficiency and portability
- C. Likelihood and impact
- D. Financial damage, frequency of use and external visibility

Correct Answer: C

QUESTION 2

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 3

The Bonus Program is perceived by management to be critical. Defects in the program would almost immediately lead to financial loss. In the past an improvement program has been run to implement review based on IEEE 1028. Knowledge and skills on both formal and informal reviews are available. There is also an existing pool of review leaders. Which of the following review types would you choose to review the program? 2 credits [K4]

Number of correct answers: 1

- A. Informal review
- B. Inspection
- C. Walkthrough
- D. Management review

Correct Answer: B

QUESTION 4

Which of the following is a valid way to calculate the cyclomatic complexity? 1 credit [K2] Number of correct answers: 1

- A. Number of decisions + 2
- B. Number of enclosed regions - 1
- C. Number of statements - 2
- D. Links - Nodes + 2

Correct Answer: D

QUESTION 5

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

QUESTION 6

Which specification-based technique could be used to enhance coverage for this code fragment? 1 credit [K2]

Number of correct answers: 1

- A. Boundary value analysis
- B. Exploratory testing
- C. State transition testing
- D. Use case testing

Correct Answer: A

QUESTION 7

Which of the following is the most important benefit of making exploratory testing part of your test approach for the "Bonus Program"?

3 credits [K4]

Number of correct answers: 1

- A. The ability to utilize a very experienced test team
- B. The ability to accurately predict the residual risk prior to delivery
- C. The ability to prevent defects during requirements analysis
- D. The ability to test effectively without a complete test basis

Correct Answer: D

QUESTION 8

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 9

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

QUESTION 10

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 11

It has been decided to improve the efficiency and effectiveness of unit testing by acquiring a number of test tools. Which TWO of the following tools would you select to support unit testing? 1 credit [K2]

Number of correct answers: 2

- A. Dynamic analysis
- B. Review tool
- C. Coverage measurement tool
- D. Monitoring
- E. Test management

Correct Answer: AC

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

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

QUESTION 14

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 15

Exhibit: Identify TWO main advantages of this approach to incident management. (3 credits, for 1 out of 2 correct 1 credit) 3 credits [K4]

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.

Number of correct answers: 2

- A. Quick to set up and cheap
- B. Electronic rather than manual
- C. Allows attachments (e.g. screen prints) to be linked to the incident reports
- D. Can easily be integrated with open source tools
- E. Large files are not a problem

Correct Answer: AB

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