

## 5 Written questions

1. A tool that provides objective measures of what structural elements, e.g. statements, decision outcome branches have been exercised by a test suite.

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2. A tool that provides support for the identification and control of configuration items, their status over changes and versions, and the release of baselines consisting of configuration items.

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3. See Performance Testing Tool.

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4. See Static Analyzer.

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5. A tool that provides an environment for unit or component testing in which a component can be tested in isolation or with suitable stubs and drivers. It also provides other support for the developer, such as debugging capabilities.

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## 5 Matching questions

1. \_\_\_\_\_ Test Management Tool

2. \_\_\_\_\_ Static Analyzer

3. \_\_\_\_\_ Requirements Management Tool

4. \_\_\_\_\_ Defect Management Tool

5. \_\_\_\_\_ Security Tool

A. See Incident Management Tool.

B. A tool that carries out static analysis.

C. A tool that provides support to the test management and control part of a test process. It often has several capabilities, such as testware management, scheduling of tests, the logging of results, progress tracking, incident management, and test reporting.

D. A tool that supports the recording of requirements, requirements attributes (e.g. priority, person responsible, etc.) and annotation and facilitates traceability through layers of requirements and requirements change management.

E. A tool that provides operational security or provides support for testing security vulnerabilities.

## 5 Multiple choice questions

1. A tool that provides run-time information on the state of the software code. These tools are most commonly used to identify unassigned pointers, check pointer arithmetic, to monitor the allocation, use and de-allocation of memory, and to flag memory leaks.

- A. Dynamic Analysis Tool
- B. Static Analyzer
- C. Defect Management Tool
- D. Static Analysis Tool

2. A type of test tool that enables data to be selected from existing databases or created, generated, manipulated, and edited for use in testing.

- A. Test Harness
- B. Test Data Preparation Tool
- C. Test Design Tool
- D. Test Management Tool

3. The effect on the component or system by the measurement instrument when the component or system is being measured, e.g. by a performance testing tool or monitor. For example, Performance may be slightly worse when performance testing tools are being used.

- A. Monitor
- B. Probe Effect
- C. Review Tool
- D. Performance Testing Tool

4. A tool that supports the test design activity by generating test inputs from a specification that may be held in a CASE tool repository, e.g. a requirements management tool, from specified test conditions held in the tool itself, or from code.

- A. Test Comparator
- B. Modeling Tool
- C. Test Design Tool
- D. Load Testing Tool

5. A type of test tool that is able to execute other software using an automated test script, e.g. capture/playback.

- A. Test Design Tool
- B. Test Management Tool
- C. Test Execution Tool
- D. Stress Testing Tool

## 5 True/False questions

1. A tool that supports stress testing. → Stress Testing Tool

- ☐ True
- ☐ False

2. A tool to support performance testing and that usually has two main facilities: load generation and test transaction measurement. Load generation can simulate either multiple users or high volumes of input data. During execution, response time measurements are taken from selected transactions and these are logged. → Defect Management Tool

- ☐ True
- ☐ False

3. A test tool to perform automated test comparison of actual results with expected results. → Test Harness

- ☐ True
- ☐ False

4. A tool that provides support to the review process. Typical features include review planning and tracking support, communication support, collaborative reviews, and a repository for collecting and reporting of metrics. → Security Tool

- ☐ True
- ☐ False

5. A tool that supports the validation of models of the software or system. [Graham] → Modeling Tool

- ☐ True
- ☐ False