

Quiz 2

Only one answer is correct

* Required

1. ID *

2. **Fail fast and Fail safe are two programming languages techniques that apply the principle of sensitivity. Which of the following answers is correct? To implement sensitivity ... ***

Mark only one oval.

- Fail Fast uses exceptions whereas Fail Safe uses copies of internal data structures
- Fail Fast tests race condition failures whereas Fail Safe tests internal data structures
- Both Fail Fast and Fail Safe use race conditions failures to test data structures
- Fail Fast verifies if the program fails fast and Fail Safe verifies if the program fails safely
- Both Fail Fast and Fail Safe use exceptions

3. **What is the difference between program analysis and testing ***

Mark only one oval.

- Program analysis is mainly dynamic whereas testing is static
- Program analysis is mainly manual whereas testing is automated
- Program analysis is mainly static whereas testing is dynamic
- Program analysis requires validation whereas testing does not
- Both require to design a Test Case Suite

4. **In a representation in states and transitions of a program execution, coarsening is an effect that ***

Mark only one oval.

- ignores execution sequences of shorter sequences
- merges states
- adds states
- collapses execution sequences into shorter sequences
- adds execution sequences to shorter sequences

5. Which of the following is true? *

Mark only one oval.

- TDD is a validation technique
- With TDD developers write test cases before code units
- TDD uses drivers, stubs and oracles to drive coding
- TDD uses scaffolding to to test the existence of a test case

6. What is the McCabe complexity of two consecutive "if"s? *

Mark only one oval.

- It depends on the number of infeasible complete paths
- 0
- 1
- 2
- 3

7. What is a typical problem of search algorithms in long arrays? *

Mark only one oval.

- The last item might not be tested as the search does not succeed
- The last item might not be tested as the search succeeds outside the array
- The last item might not be tested as the search succeeds at the last item
- The last item might not be tested as the search succeeds at the second last item or before
- The last item might not be tested as the search succeeds both in the if and the else blocks

8. Which of the following is true? *

Mark only one oval.

- A call graph models all the calls excluding the ones due to polymorphism
- A call graph models all the calls excluding the ones due to static functions
- A call graph models all the calls including some that are not in the actual program execution
- A call graph models only the calls that are in the actual program execution
- A call graph models only the calls that are not in the actual program execution

9. In Constatine diagrams, if the Fan-in of a class is >0 but the number of calls from another class is zero, what can I say? *

Mark only one oval.

- The class writes to global variable(s)
- The class reads from global variable(s)
- The class modifies global variable(s)
- The class extends an abstract class
- The class implements an interface

10. **What is a test case specification? ***

Mark only one oval.

- A specification derived only from the software product specifications
- A specification derived only from the system behaviour
- A specification derived from the software product specifications and system behaviour
- A requirement derived only from the software product requirements
- A requirement derived from the software product requirements and system behaviour

11. **What is the advantage of black-box testing over white-box testing? ***

Mark only one oval.

- It can test a software independently from its requirements
- It can test a software independently from its specifications
- It can test a software independently from its implementation
- It can test a software independently from the end-users
- It can test a software independently from its verification technique