

## Testing level homework

**Question 4:** Which of the following statements comparing component testing and system testing is TRUE?

- a) Component testing verifies the functionality of software modules, program objects, and classes that are separately testable, whereas system testing verifies interfaces between components and interactions between different parts of the system
- b) Test cases for component testing are usually derived from component specifications, design specifications, or data models, whereas test cases for system testing are usually derived from requirement specifications or use cases
- c) Component testing only focuses on functional characteristics, whereas system testing focuses on functional and non-functional characteristics
- d) Component testing is the responsibility of the testers, whereas system testing typically is the responsibility of the users of the system

**Answer:**

- b) Test cases for component testing are usually derived from component specifications, design specifications, or data models, whereas test cases for system testing are usually derived from requirement specifications or use cases

**Question 5:** Which of the following statements about test types and test levels is CORRECT?

- a) Functional and non-functional testing can be performed at system and acceptance test levels, while white-box testing is restricted to component and integration testing
- b) Functional testing can be performed at any test level, while white-box testing is restricted to component testing
- c) It is possible to perform functional, non-functional and white-box testing at any test level
- d) Functional and non-functional testing can be performed at any test level, while white-box testing is restricted to component and integration testing

**Answer:**

- c) It is possible to perform functional, non-functional and white-box testing at any test level

**Question 6:** Consider the following types of defects that a test level might focus on:

1. Defects in separately testable modules or objects
2. Not focused on identifying defects
3. Defects in interfaces and interactions
4. Defects in the whole test object

Which of the following list correctly matches test levels from the Foundation syllabus with the defect focus options given above?

- a) 1 = performance test; 2 = component test; 3 = system test; 4 = acceptance test
- b) 1 = component test; 2 = acceptance test; 3 = system test; 4 = integration test
- c) 1 = component test; 2 = acceptance test; 3 = integration test; 4 = system test
- d) 1 = integration test; 2 = system test; 3 = component test; 4 = acceptance test

**Answer:**

- c) 1 = component test; 2 = acceptance test; 3 = integration test; 4 = system test