Multiple-Choice Questions:

1. True or false? Generally, in practice, developers <u>exhaustively</u> test software.

    a. True

    b. False

2. True or false? All "real" software contains bugs.

    a. True

    b. False

3. Which of the following is <u>not</u> a desirable quality of a unit test?

    a. No I/O

    b. Fast

    c. Non-deterministic

    d. Tests one property

    e. None of the above

4. Which of the following is true of *exhaustive testing*?

    a. Generally infeasible in practice

    b. Tests all possible inputs

    c. Typically results in an intractably large set of test cases even for small programs

    d. All of the above

    e. None of the above

5. Which of the following is <u>not</u> a difference between unit tests and integration tests?

    a. Unit tests should not perform I/O, whereas integration tests may do so

    b. Unit tests should be deterministic, whereas integration tests may have non-determinism

    c. Unit tests should be fast (less than half a second), whereas integration tests may be slower

    d. Unit tests must be black-box tests, whereas integration tests must be white-box tests

    e. None of the above (they are all differences)

6. Which of the following is <u>not</u> a difference between black-box and white-box testing?

    a. Black-box tests are based only on the interface of a component, whereas white-box tests are based on the implementation

    b. Black-box tests often focus on boundary cases, whereas white-box tests tend not to

    c. White-box tests often aim to achieve particular levels of code-coverage, whereas black-box tests do not

    d. White-box tests are made by programmers, whereas black-box tests are made by ordinary users

    e. None of the above (they are all differences)

7. In _____, you hook <u>everything</u> together and treat the system like a black box.

    a. test-driven development

    b. system testing

    c. unit testing

    d. integration testing

    e. None of the above

Solutions:

1. b

2. a

3. c

4. d

5. d

6. d

7. b