

***Essentials of Software Engineering 5th edition Tsui
Test Bank***

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Chapter: Chapter 01 – Test Bank

Short Answer

1. _____ are statements that define or qualify what a program needs to do.

Ans: Requirements

Alternate Ans: Program requirements

Complexity: Moderate

Ahead: A Simple Problem

Subject: Chapter 1

2. _____ are statements that constrain the ways in which the software can be designed and implemented.

Ans: Design constraints

Complexity: Moderate

Ahead: A Simple Problem

Subject: Chapter 1

3. As we grow the software, _____ is one of the two major examples of growth in depth of complexity.

Ans: decision branching

Ans2: loops

Complexity: Moderate

Ahead: Characteristics of Building a System

Subject: Chapter 2

4. CLI stands for _____.

Ans: command line interface

Complexity: Moderate

Ahead: Implementations

Subject: Chapter 1

5. _____ is an interface with graphical icons to communicate to users.

Ans: Graphic user interface

6. The _____ qualify the functional requirements and specify in what manner they need to be achieved.

Ans: nonfunctional requirement statements

Complexity: Moderate

Ahead: A Simple Problem

Subject: Chapter 1

7. In _____ testing, the test cases are based only on the requirements specification, not on the implementation code.

Ans: black box

Complexity: Moderate

Ahead: Testing

Subject: Chapter 1

True/False

1. True or False? The program done in this chapter is not tested.

Ans: False

Complexity: Moderate

Ahead: Estimating Effort

Subject: Chapter 1

2. True or False? The time estimation for a development task should be done by the client.

Ans: False

Complexity: Moderate

Ahead: Estimating Effort

Subject: Chapter 1

3. True or False? Implement every function, even if the needed function exists in the standard library.

Ans: False

Complexity: Moderate

Ahead: Implementations

Subject: Chapter 1

4. True or False? The final deadline for delivering the project comes always from the programmers because they know how long it will take to finish.

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Test Bank

Ans: False

Complexity: Moderate

Ahead: A Simple Problem

Subject: Chapter 1

Multiple Choice

1. Further reading about how to keep track of programming tasks and why programmers would benefit from doing so is found in:

- A) Chapter 13.
- B) Humphrey (1996).
- C) personal software process.
- D) All of these are correct.

Ans: D

Complexity: Moderate

Ahead: Estimating Effort

Subject: Chapter 1

2. Estimating the effort needed to complete a project is important because it is used to develop the:

- A) design.
- B) test cases.
- C) schedule.
- D) requirements.

Ans: C

Complexity: Moderate

Ahead: Estimating Effort

Subject: Chapter 1

3. Which of the following is a nonfunctional requirement found in the system described in this chapter?

- A) Performance
- B) Real-time requirements
- C) Modifiability
- D) All of these are correct.

Ans: D

Complexity: Moderate

Ahead: Estimating Effort

Subject: Chapter 1

4. Showing your code to other people will:

- A) help you find your defects.
- B) be a software review of your code.
- C) be cheating in the academic world but not in the real world.
- D) All of these are correct.

Ans: D

Complexity: Moderate

5. The implementation of the sorting program is tested using:

- A) unit testing.
- B) JUnit.
- C) Frameworks.
- D) All of these are correct.
- E) unit testing and JUnit.

Ans: E

Complexity: Moderate

Ahead: Implementations

Subject: Chapter 1

6. Extreme programming practices writing test cases _____ writing the code.

- A) before
- B) while
- C) after
- D) All of these are correct.

Ans: A

Complexity: Moderate

Ahead: Testing

Subject: Chapter 1