

# 605.601 - Foundations of Software Engineering

## Quiz 03

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### Part 1

Please answer all ten (10) questions below.

1. \_\_\_\_\_ is a measure of the degree of interdependence between modules.

[Consider component-based design]

- ☐ (a) Cohesion
- ☒ (b) Coupling
- ☐ (c) Neither of the above
- ☐ (d) Both (a) and (b)

2. A software engineer must design the modules with the goal of high cohesion and low coupling.

- ☒ (a) True
- ☐ (b) False

3. Which is the first step in the software development life cycle?

- ☐ (a) Analysis
- ☐ (b) Design
- ☒ (c) Problem/Opportunity Identification or Statement
- ☐ (d) Development and Documentation

4. A step by step instruction used to solve a problem is known as
- ☐ (a) Sequential structure
  - ☐ (b) A List
  - ☐ (c) A plan
  - ☒ (d) An algorithm
5. In the Analysis phase, the development of the \_\_\_\_\_ occurs, which is a clear statement of the goals and objectives of the project.
- ☐ (a) documentation
  - ☐ (b) flowchart
  - ☒ (c) software requirement specification
  - ☐ (d) design
6. Actual programming of software code is done during the \_\_\_\_\_ step in the SDLC.
- ☐ (a) Maintenance and Evaluation
  - ☐ (b) Design
  - ☐ (c) Analysis
  - ☒ (d) Development and Documentation
7. Who designs and implement database structures?
- ☐ (a) Programmers
  - ☐ (b) Project managers
  - ☐ (c) Technical writers
  - ☒ (d) Database administrators
8. \_\_\_\_\_ is the process of translating a task into a series of commands that a computer will use to perform that task.

- ☐ (a) Project design
- ☐ (b) Installation
- ☐ (c) Systems analysis
- ☒ (d) Programming

9. In Design phase, which is the primary area of concern?

- ☐ (a) Architecture
- ☐ (b) Data
- ☐ (c) Interface
- ☒ (d) All of the above

10. Which of the following is a mechanism that allows several objects in a class hierarchy to have different methods with the same name?

- ☐ (a) Aggregation
- ☒ (b) Polymorphism
- ☐ (c) Inheritance
- ☐ (d) All of the above