605.601— Foundations of Software Engineering Fall 2020

Quiz 03 | Due: November 19, 2020 Midnight

Name:_____

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