

# 605.601 - Foundations of Software Engineering

## Quiz 01

Sabbir Ahmed

September 25, 2020

### Part 1

Answer all five questions below.

1. Choose the correct option in terms of the ‘code of ethics’ you know or recognize for issues related to professional responsibility of a software engineer
  - ☐ (a) Confidentiality
  - ☐ (b) Intellectual property rights
  - ☒ (c) Both confidentiality & intellectual property rights
  - ☐ (d) Managing Client Relationships
2. Software Development Methodology includes a model and a framework
  - ☒ (a) True
  - ☐ (b) False
3. What is a Software?
  - ☐ (a) Software is a set of programs
  - ☐ (b) Software is documentation and configuration of data
  - ☒ (c) Software is set of programs, documentation & configuration of data
  - ☐ (d) None of the mentioned
4. Which one of these issues or points does not necessarily account for software failure?
  - ☐ (a) Increasing demand
  - ☒ (b) Low expectation
  - ☐ (c) Increasing supply
  - ☐ (d) Less reliable and expensive
5. Which of the following is not software project management goal?
  - ☐ (a) Keeping overall costs within budget
  - ☐ (b) Delivering the software to the customer at the agreed time
  - ☐ (c) Maintaining a happy and well-functioning development team
  - ☒ (d) Avoiding customer complaints

## Part 2

Please use your own words to answer the following questions. Please make sure that your answer is clear, concise, and legible.

6. (a) What is a software development process?

A software development process is a coherent set of activities grouped in distinct phases that lead to a software system's production.

- (b) Why would you use it?

A software development process is required to ensure that a software product is adequately implemented according to the specified requirements. The process also guarantees the proper maintenance of the software product after being shipped to the customers.

- (c) What do you think are the common phases or stages of software development process?

The common phases of a software development process are;

- i. requirements gathering
- ii. analysis and design
- iii. implementation
- iv. testing
- v. verification and acceptance
- vi. maintenance

- (d) Name and describe in a few sentences a software development process that is most commonly used in the industry today.

A typical software development process in the industry is the agile methodology. Agile methodologies advocate for frequent collaboration between the development teams and their end-users through iterative development. Several derivations of the method exist to account for company or product constraints; however, the general principles of adaptive planning, evolutionary development, and continuous integration are maintained.