605.601— Foundations of Software Engineering:Quiz 01

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