



303105253 : Software Engineering

Academic Year : 2024-2025

ASSIGNMENT-1

Semester- IV

(Based on Unit-1&2) Submission Date – Latest by 20-September-2024

Long Questions:

S.No	Question
1.	Describe about software engineering layers with a neat diagram.
2.	Discuss the steps involved in risk management, including identification, assessment, and control, with examples.
3.	Explain about the umbrella activities which support software development process and discuss about their necessity in maintaining the quality in both software process and product that is being developed for railway reservation system.
4.	Describe Agile project life cycle and its phase?
5.	What is effort estimation in software project management? Describe at least two effort estimation techniques in detail.
6.	Explain the W5HH principle in detail, and how it helps in the effective planning and management of a software project.
7.	Describe the interrelationship between People, Product, Process, and Project in software project management.
8.	Explain the process of detailed scheduling in project management and the techniques used for creating detailed schedules.

Short Questions.

S.No	Question
1.	List any two types of software models.
2.	Name two essential characteristics of good software.
3.	What are the four layers of software engineering layered technology?
4.	Give two examples of software engineering tools.
5.	Define the term "software process model."
6.	What is Extreme Programming (XP)?
7.	What are the four Ps in the management spectrum?
8.	What is the relationship between the product and the process?
9.	What does W5HH stand for in project management?
10.	Name two techniques used for detailed scheduling.
11.	Name two tools used for project monitoring.



MCQ Questions:

1. Which of the following is a software development model?
 - a) Waterfall Model
 - b) Incremental Model
 - c) Agile Model
 - d) All of the above
2. A software model primarily defines:
 - a) Team roles
 - b) Development phases and structure
 - c) Deployment environment
 - d) Testing strategies
3. Which tool is commonly used for Agile project management?
 - a) Trello
 - b) MS Word
 - c) Photoshop
 - d) SQL Server
4. An advantage of the incremental model is:
 - a) Reduced cost
 - b) No need for user feedback
 - c) Early delivery of functional software
 - d) Avoids design documentation
5. A project monitoring plan is used to:
 - a) Track project progress and performance
 - b) Define team responsibilities
 - c) Manage risk analysis
 - d) Allocate resources
6. Risk assessment is used to:
 - a) Eliminate all project risks
 - b) Evaluate the likelihood and impact of risks
 - c) Identify testing strategies
 - d) Define project goals
7. Which of the following is a quality assurance activity?
 - a) Writing test cases
 - b) Budget planning
 - c) Feasibility analysis
 - d) Risk identification
8. Feasibility study evaluates:
 - a) The technical and economic viability of the project
 - b) Coding standards
 - c) Documentation requirements
 - d) Deployment strategies
9. Effective team management in software projects primarily ensures:
 - a) Reduced project costs
 - b) Timely delivery and high-quality software
 - c) Elimination of risks
 - d) Increased documentation