



K. K. Wagh Institute of Engineering Education & Research, Nashik
(An Autonomous Institute From A.Y. 2022-23)

WINTER-2025	
Exam Seat No.:	
Academic Year:2025-2026	Semester:VI
Class:TY	Program:B.Tech
Branch Code:INT	Pattern:2022
Name of Course:Software Engineering & Project Management	Course Code:INT223011
Max. Marks:60	Duration:2.30 Hrs.

Instructions: Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.

1. This question paper contains _02_ page(s).
2. Answer to each new question is to be started on a new page.
3. Assume suitable data wherever required, but justify it.
4. Draw the neat labelled diagrams, wherever necessary.
5. The last columns indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.

Marks CO

Question No. 1

- 1a) Compare the Waterfall Model and Incremental Model in terms of structure and application. (6) CO1

Question No. 2

- 2a) Describe the importance of project scheduling and explain how PERT helps in developing project schedules with an example. (6) CO2

Question No. 3

- 3a) Describe the concept of Test-Driven Development (TDD) and how it supports quality software. (5) CO3

OR

- 3b) Explain the importance of refactoring in maintaining the quality of agile codebases. (5) CO3

- 3c) Discuss how pair programming enhances collaboration and code quality in Agile teams. (5) CO3

OR

- 3d) Explain the practice of Continuous Integration and its benefits in agile environments. (5) CO3

- 3e) Differentiate between exploratory testing and scripted testing in the Agile context. (6) CO3

OR

- 3f) Describe how agile practices contribute to faster and more adaptive development cycles. (6) CO3

Question No. 4

- 4a) Explain the process of controlling quality in software project management. (5) CO4

OR

- 4b) Explain how risk identification and analysis contribute to IT project success. (5) CO4

- 4c) Describe the main objectives of software engineering in a project environment. (5) CO4

OR

4d) Examine the relationship between software engineering and project quality management, and how they influence each other. (5) CO4

4e) Describe the concept of IT Risk Management and its relevance to software projects. (6) CO4

OR

4f) Differentiate between Verification and Validation in Software Quality Assurance by examining their purpose and methods. (6) CO4

Question No. 5

5a) Explain the major components of CASE tools and their functions. (5) CO5

OR

5b) Distinguish between upper CASE, lower CASE, and integrated CASE tools. (5) CO5

5c) Describe the impact of technology evolution on software engineering practices. (5) CO5

OR

5d) Explain recent process trends in software engineering and how they influence development. (5) CO5

5e) Examine the role of collaborative development in modern software projects and how it affects project outcomes. (6) CO5

OR

5f) Investigate how Test-Driven Development improves both software design and testing processes. (6) CO5

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