



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

InSem Examination-II Summer 2025	
Exam Seat No.:	
Academic Year: 2024-2025	Semester: VI
Class: TY IT	Program: B.Tech
Branch Code: INT	Pattern: 2022
Name of Course: Software Engineering & Project Management	Course Code: INT223011
Max. Marks: 30	Duration: 1.15 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 one 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 column indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.

Marks CO

Question No. 1

- 1 a) What is a software process? Describe its importance in software development. (3) CO1
- 1 b) Discuss the impact of software myths on the software development process. (4) CO1

Question No. 2

- 2 a) What are the framework activities in a generic process model? (4) CO1
- 2 b) What are Incremental models? Discuss their benefits over the Waterfall model. (4) CO1

Group OR

- 2 c) Compare the Waterfall model and Incremental model with suitable examples. (4) CO1
- 2 d) What is Cleanroom Software Engineering? Explain its key principles. (4) CO1

Question No. 3

- 3 a) What is the role of validation in requirements engineering? Provide two real-life examples where validation helped avoid project failures. (3) CO2
- 3 b) Describe the Kano Model for prioritizing requirements. Provide an example of how it can be applied in a real-life software project. (4) CO2

Question No. 4

- 4 a) Define Work Breakdown Structure (WBS). How does it help in organizing project tasks? Provide an example. (4) CO2
- 4 b) What is effort estimation in project management? Describe any two techniques used for estimating effort. (4) CO2

Group OR

- 4 c) Explain the Program Evaluation and Review Technique (PERT). How does it differ from Gantt Charts? (4) CO2
- 4 d) Discuss how resource estimation affects the project schedule. Provide a practical example. (4) CO2

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