



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

SUMMER-2024	
Exam Seat No.:	
Academic Year:2023-2024	Semester:IV
Class:SY	Program:B.Tech
Branch Code:ADS/COM/CSD	Pattern:2022
Name of Course:Software Engineering and Project Management	Course Code:COM222015
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 2 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.

Question No. 1 Attempt following Question

- 1 Umbrella activities occur throughout the software process. Do you think they are applied evenly across the process, or are some concentrated in one or more framework activities? (6) CO1

Question No. 2 Attempt following Question

- 2 Short note on: (6) CO2
1. Modularity in software design
 2. Separation of concerns

Question No. 3 Attempt following Question

- 3.a) List the four P's of software project management spectrum. Explain how "the people" factor contributes towards the success of the software project. (6) CO3

OR

- 3.b) Explain W⁵HHH principles. (6) CO3

- 3.c) What are the attributes of effective software metrics? (5) CO3

OR

- 3.d) Why is CMM model important? Explain the different levels of CMM. (5) CO3

- 3.e) Justify the following statement "Although the success rate for present-day software projects may have improved somewhat, project failure rate remains much higher than it should be". (5) CO3

OR

3.f) Describe the project factors that should be considered when planning the structure of software engineering teams. (5) CO3

Question No. 4 Attempt following Question

4.a) Why there is a need of project estimation? What are the steps while estimation of software? (6) CO4

OR

4.b) Explain COCOMO Model for project estimation with suitable example. (6) CO4

4.c) Illustrate process decomposition? What are the work tasks for communication process using process decomposition? (5) CO4

OR

4.d) What is LOC based estimation? Explain with example. (5) CO4

4.e) What is Software Scope and Feasibility? Explain with example. (5) CO4

OR

4.f) Describe any two software size estimation techniques. (5) CO4

Question No. 5 Attempt following Question

5.a) What is project scheduling? Explain basic principles of project scheduling. (6) CO5

OR

5.b) What is risk management in e-commerce? (6) CO5

5.c) Define a task set for the software project with suitable example. (5) CO5

OR

5.d) What is time line chart? Explain with a suitable example. (5) CO5

5.e) What is task network in project scheduling? Explain with example. (5) CO5

OR

5.f) List the root causes of why software is delivered late? (5) CO5

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