



**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 Describe a process framework in your own words. Explain when we say that framework activities are applicable to all projects, does this mean that the same work tasks are applied for all projects, regardless of size and complexity? (6) CO1

**Question No. 2 Attempt following Question**

- 2 Write 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) What are the categories of stakeholders? What are the characteristics of effective project manager? (6) CO3

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

**OR**

- 3.d) What is the CMM model of maturity? (5) CO3

- 3.e) What is a "soft trend"? (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) Differentiate between problem based and process based estimation. (6) CO4

**OR**

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

- 4.c) Explain Use case based estimation with example. (5) CO4

**OR**

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

- 4.e) Why there is a need of project estimation? What are the steps while estimation of software? (5) CO4

**OR**

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

**Question No. 5 Attempt following Question**

- 5.a) Explain the RMMM plan with suitable example. (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) Explain different types of risks. (5) CO5

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

**OR**

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

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