

KT / Comps.

K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

Nov - Dec 2025-26		
(B. Tech) Program: Computer Engineering Scheme IIB		
Supplementary Examination: TY Semester: V		
Course Code: CEC502 and Course Name: Software Engineering		
Date of Exam: 03/12/2025	Duration: 02.5 Hours	Max. Marks: 60

Instructions:
(1) All questions are compulsory.
(2) Draw neat diagrams wherever applicable.
(3) Assume suitable data, if necessary.

Q. No.	Question	Max. Marks	CO	BT level
Q 1	Solve any two questions out of three: (05 marks each)	10		
a)	What do you mean by Umbrella activities in software engineering. Explain all activities?		CO1	U
b)	What is SRS? Explain the IEEE template to prepare SRS of any case study.		CO1	U
c)	Describe LOC method of cost estimation in detail.		CO2	U
Q 2	Solve any two questions out of three: (05 marks each)	10		
a)	Draw the use case diagram for library management system.		CO1	U
b)	Differentiate between cohesion and coupling.		CO3	U
c)	What is maintenance? Explain the types of maintenance in detail.		CO5 CO6	AP
Q.3	Solve any two questions out of three. (10 marks each)	20		
a)	What is incremental software process model. Explain any one model in detail.		CO1	U
b)	.Define PERT chart. Draw the PERT chart for Inventory management system.		CO2	AP
c)	What is UML ? Prepare class diagram for Airline reservation system.		CO3	AP

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Q.4	Solve any two questions out of three. (10 marks each)	20		
a)	Prepare the test cases for college management system using white box testing.		CO4	AP
b)	Explain Risk? Prepare RMMM plan for attendance management system by considering minimum 3 risks.		CO5 CO6	AP
c)	What is FTR? How it is conducted?		CO5 CO6	U
