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

- Da 2024 25 Jan/Feb 2025

(B. Tech / M. Tech.) Program: Information Technology Scheme: III
Regular/Supplementary Examination: LY Semester: III

Date of Exam: 07-02-25 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	со	BT level
Q1	Solve any two questions out of three: (05 marks each)	10		
a) -	Explain constructor and method overloading concept in java programming		COI	U -
b)	Explain incremental software development model		CO2	U
c)	Analyze software requirement specification (SRS) for any system		CO3	Analyze
Q 2	Solve any two questions out of three: (05 marks each)	10		
a)	Explain and design UML Sequence diagram of order management system		CO4	Create
b)	List and explain any two UML modeling tools to draw UML diagrams		CO5	Ü
c)	Compare Alpha and Beta testing		CO6	Analyze
Q.3	Solve any two questions out of three. (10 marks each)	20		
a)	Explain Multithreading concept with example		COI	U
b)	Explain spiral software development model		CO2	U
c)	Explain PERT/CPM in details		CO3	U
Q.4	Solve any two questions out of three. (10 marks each)	20	-01	
a)	Explain and design UML Activity diagram of any system		CO4	Create
b)	List and explain Open Source and Free UML Tools		CO5	U
c)	Compare white and Block box testing		CO6	Analyze
