

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

May 2026

(B. Tech) Program: All Branches Scheme : III

Regular Examination: LY Semester: VI

Course Code: ILC6051 and Course Name: Product Life Cycle Management

Date of Exam: 25/5/26 Duration: 02.5 Hours

Max. Marks: 60

Instructions:

(1) All questions are compulsory.

(2) Draw neat diagrams wherever applicable.

(3) Support answer with suitable sketch wherever applicable.

Q. No.	Question	Max. Marks	CO	BT level
Q 1	Solve any two questions out of three: (05 marks each)	10		
a)	Explain Product design process and associated Typologies.		2	U
b)	State any five barriers to PDM implementation.		3	An
c)	State at least five benefits of PLM.		1	U
Q 2	Solve any two questions out of three: (05 marks each)	10		
a)	State the limitations of Life Cycle Assessment process.		6	U
b)	Explain the concept of Digital Mock Up in virtual product development.		4	U
c)	Explain in brief the useful life extension strategies.		5	An
Q.3	Solve any two questions out of three. (10 marks each)	20		
a)	Explain phases in a product's life cycle with examples in each phase.		1	U
b)	Define Concurrent Engineering? What are the characteristic features of Concurrent Engineering? How Concurrent Engineering approach is applicable in the Life Cycle of a product,		2	U
c)	Explain the reasons for implementing a PDM system.		3	An
Q.4	Solve any two questions out of three. (10 marks each)	20		
a)	Explain the 'End-of-Life' strategies. How it can be used in PLM?		5	An
b)	Explain change management for PLM.		1	U
c)	Describe the general framework for LCCA		6	U
