

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

Nov – Dec 2024		
(B. Tech) Program: All Branches Scheme : II		
Regular Examination: LY Semester: VII		
Course Code: ILC7051 and Course Name: Product Development Life Cycle		
Date of Exam: 30.11.2024	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	Questions	Max. Marks	CO	BT level
Q1	Solve any two questions out of three. (05 marks each)	10		
a.	Explain Product Life cycle with the help of a neat and labeled diagram.		CO1	Un
b.	Describe the new product development strategies in detail.		CO2	Un
c.	Elaborate any five components of PDM system.		CO3	Ap
Q2	Solve any two questions out of three. (05 marks each)	10		
a.	Explain by means of a product as an example, the three main recovery levels of end-of-life strategies		CO5	An
b.	Explain the various types of rendering techniques used for product development?		CO4	Un
c.	Describe the phases of LCA as per ISO standards.		CO6	Un
Q3.	Solve any two questions out of three (10 marks each)	20		
a.	Describe in detail the various PLM paradigms. How these paradigms are different from the pre-PLM environment?		CO1	Un
b.	2. Define the term "digital mock-up" What is its need? Name any two software used for digital mockup.		CO2	Ap
c.	Explain the general framework for LCCA.		CO6	Un
Q4.1.	Solve any two questions out of three (10 marks each)	20		
a.	1. Describe PLM vision? Explain the need to develop a PLM vision before		CO1	Un

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	implementing it.		
	2. State any two characteristic features of concurrent engineering.	CO2	Un
b.	1. Explain the benefits of virtual product development?	CO4	Un
	2. Explain model building approach in detail.	CO3	An
c.	Describe the three phases through which DFE is implemented in design practice?	CO5	Un
