

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

<p><i>Supplementary Exam</i></p> <p>B.Tech Program(All Branches) Scheme :II</p> <p>Examination: LY Semester: VII</p> <p>Course Code: ILC7051 and Course Name:Product Life Cycle Management</p> <p>Date of Exam: <i>06-08-24</i></p>	<p><i>Feb/Mar 2024</i></p> <p>Duration: 2.5 Hours</p> <p>Max. Marks: 60</p>
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Instructions:				
(1)All questions are compulsory.				
(2)Draw neat diagrams wherever applicable.				
(3)Assume suitable data, if necessary.				
		Max. Marks	CO	BT level
Q 1	Solve any six questions out of eight:	12		
i)	Explain Importance PLM	2	1	Un
ii)	Explain the Benefits of LCA	2	6	Un
iii)	Enlist environmental strategies and explain any one	2	5	Un
iv)	Explain the need of product configurator in product configuration.	2	2	Un
v)	List out components of PDM and explain any two of them.	2	3	Un
vi)	Explain the need to create realistic rendering of product	2	4	Un
vii)	Explain need of developing PLM vision	2	1	Un
viii)	Explain organization and decomposition in product design	2	2	Un
Q.2	Solve any four questions out of six.	16		
i)	Explain which strategies may adopt in each phase of PLM	4	1	Un
ii)	Interpret how variant management is useful in product configuration	4	2	Un
iii)	Explain model building with example	4	4	Un
iv)	Identify any four reasons for implementation of PDM system	4	3	Ap
v)	Analyze determinant factors to identify the environmental strategies in product design	4	5	An
vi)	Explain Life cycle Inventory phase in life cycle assessment	4	6	Un

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Q.3	Solve any two questions out of three.	16		
i)	Explain PLM Paradigm with suitable one example	8	1	Un
ii)	Explain Digital mock up (DMU) with its needs	8	4	Un
iii)	Examine strategies for extension of useful life and design considerations	8	5	An
Q.4	Solve any two questions out of three.	16		
i)	Explain product development process with suitable diagram.	8	2	Un
ii)	Identify and explain barriers of PDM implementation	8	3	Ap
iii)	Describe Framework of Life cycle assessment	8	6	Un
