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

Subject Code: ILC7051      Subject Name: Product Lifecycle Management      Date:13.12.2022

Nov – Dec 2022 (B.Tech) Examination: LY Semester: VII Course Code: ILC7051      and      Course Name: Product Lifecycle Management Duration: 2.5 Hours      Max. Marks: 60				
Instructions:				
(1)All questions are compulsory.				
(2)Draw neat diagrams wherever applicable.				
(3)Assume suitable data, if necessary.				
		Max. Marks	CO	BT level
<b>Q 1</b>	<b>Solve any six questions out of eight:</b>	<b>12</b>		
i)	Enlist any four applications of PLM	2	1	A
ii)	Importance of reference model in Product Design	2	2	An
iii)	Describe the importance of PDM	2	3	A
iv)	Define Digital Mock up and 3D CAD systems	2	4	An
v)	Explain Sustainable Design Principle	2	5	A
vi)	Define in your own words LCCA and LCA	2	6	An
vii)	Classify the various views of PLM	2	1	A
viii)	Explain any one sub problems in Product Development Process	2	2	An
<b>Q.2</b>	<b>Solve any four questions out of six.</b>	<b>16</b>		
i)	Explain steps in PLM implementation strategy	4	1	A
ii)	Explain challenges during Product Development process	4	2	A
iii)	What are common issues faced to most PDM systems?	4	3	An
iv)	Benefits of Virtual Product Modeling	4	4	An
v)	What are useful Life Extension Strategies?	4	5	A
vi)	Explain in short phases of LCA in ISO standards	4	6	An
<b>Q.3</b>	<b>Solve any two questions out of three.</b>	<b>16</b>		
i)	Explain in short different companies' different PLM initiative.	8	1	A



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ii)	Explain 3D CAD system in detail.	8	4	A
iii)	Enlist any 4 Design for Environment principles and explain it in brief.	8	5	A
<b>Q.4</b>	<b>Solve any two questions out of three.</b>	<b>16</b>		
i)	Describe design levels in engineering design	8	2	An
ii)	What are barriers to PDM implementation	8	3	An
iii)	General Framework of LCCA	8	6	An

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