

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***M.E DEGREE END SEMESTER THEORY EXAMINATIONS, NOV/DEC 2025***Third Semester**Product Design and Development***PPDT2431 - Product Lifecycle Management***Regulations - 2024**Duration: 3 Hrs**Maximum: 100 Marks***PART - A (ANSWER ALL QUESTIONS) (Marks 10*2=20)**

<i>Q.No</i>	<i>Questions</i>	<i>BTL</i>	<i>CO</i>	<i>Marks</i>
1.	List the opportunities of PLM.	L1	1	2
2.	What is the purpose of product data management?	L2	1	2
3.	Differentiate between user function and utility function.	L4	2	2
4.	What is product structure management?	L1	2	2
5.	How do PLM tools facilitate product lifecycle management?	L2	3	2
6.	Mention the uses of SAP.	L2	3	2
7.	Define PLM feasibility.	L1	4	2
8.	Mention the barriers to PLM implementation.	L2	4	2
9.	List any two purposes of PLM software integration in a company.	L2	5	2
10.	What are the features of ERP?	L1	5	2

PART - B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a Discuss the scope and objectives of engineering data management with suitable illustrations.	L2	1	16
	Or			
	b Describe the characteristics of collaborative product commerce.	L2	1	16
12.	a Discuss how the workflow carried in the process industries between PLM and PDM.	L2	2	16
	Or			
	b Discuss in detail about data transport and data translation for data integrity and interoperability in PLM and PDM.	L2	2	16
13.	a Compare the salient features of SAP PLM and Oracle Agile software features for new product introduction.	L3	3	16
	Or			
	b Compare the modules of Wind-Chill PLM software and also explain its functioning with suitable examples.	L3	3	16

14.	a	Explain the role and necessity of product management in the automobile industries.	L2	4	16
		Or			
	b	Explain in detail about the ten-step approach to PLM.	L2	4	16
15.	a	Analyze the application of EAI technology in the PLM integration with suitable illustration.	L4	5	16
		Or			
	b	Describe the challenges faced while integrating the legacy database and analyze the possibilities to overcome it.	L4	5	16