

THE KAVERY ENGINEERING COLLEGE
(An Autonomous Institution)

M.E DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 2025

Third Semester

Product Design and Development

PD4391- Product Life Cycle Management

Regulations - 2021

Duration : 3 Hrs

Maximum : 100 Marks

PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)

Q.No	Questions	BLT	CO	Marks
1.	Discuss the importance of the Product management life cycle in textile industry.	L2	1	2
2.	What are the requirements of PLM?	L2	1	2
3.	What is Product Design Management?	L2	2	2
4.	Differentiate Product Design Management and Product Structure Management.	L2	2	2
5.	List the top commercial PLM/PDM tools.	L2	3	2
6.	What are the major merits of using team center in PDM?	L2	3	2
7.	State the benefits of PLM strategy.	L1	4	2
8.	Define PLM feasibility.	L1	4	2
9.	Write the structure of database management.	L1	5	2
10.	Differentiate SLM and ERP.	L2	5	2

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

Q.No	Questions	BLT	CO	Marks
11. a	Explain in detail about product data management infrastructure with suitable case study by your own. And also discuss its communication networks with neat sketches.	L3	1	16
	Or			
b	Explain the structure of engineering data management. And also differentiate engineering data management and product data management.	L3	1	16
12. a	Explain how do you translate and transport in product lifecycle management and also discuss with suitable case study.	L3	2	16
	Or			
b	Discuss how the work flow carried in the process industries? Explain	L3	2	16

with suitable example.

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| 13. | a | Write about product management modules and its functions for an mobile industry. | L2 | 3 | 16 |
| | | Or | | | |
| | b | Explain any two product management software modules available in the market. | L2 | 3 | 16 |
| 14. | a | Explain the role of product management in the automobile industries. | L3 | 4 | 16 |
| | | Or | | | |
| | b | Explain about ten-step approach of Product life cycle management. | L3 | 4 | 16 |
| 15. | a | Discuss the functions of PLM Customization. And also explain its needs. | L3 | 5 | 16 |
| | | Or | | | |
| | b | Explain the use of EAI technology in the ERP Management. | L3 | 5 | 16 |