

USN 15ME835

Eighth Semester B.E. Degree Examination, July/August 2022 Product Life Cycle Management

Time: 3 hrs. Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

		Module-1	
1	a.		(06 Marks)
	b.	C; ,	(04 Marks)
	c.	List the benefits of PLM.	(06 Marks)
		OR	
2	a.	Sketch and explain the PLM has a holistic approach to the management of a produc	et. (<mark>06 Marks)</mark> -
	b.		(06 Marks)
	c.		(04 Marks)
		Module-2	
3	a.		(08 Marks)
	b.	Discuss the role of concurrent engineering in Product design and development.	(08 Marks)
		OR	
4	a.	, ,	(06 Marks)
	b.	What is design for X and design – centered development model?	(10 Marks)
		Module-3	
5	a.	1	(08 Marks)
	b.	Define building decision support system with all components.	(08 Marks)
		OR	
6	a.		(08 Marks)
	b.	Explain launching and tracking of new product program.	(08 Marks)
		Module-4	
7	a.	Define Technology Forecasting. Explain why technology forecasting is important.	
	b.	List and explain any one method of Technology Forecasting.	(08 Marks)
		OR	• •
8	a.	Sketch and explain the importance of 'Relevance Tree' by taking Automobexample.	otle as an (08 Marks)
	b.	List and explain the importance of ideation tools in the innovation process.	(08 Marks)
		Module-5	
9	a.	Explain the use of digital Mock – Up in product development.	(06 Marks)
	b.	Explain the technology involved in solid modeling for building 3D models.	(10 Marks)
		OR	

b. Discuss the need and benefits of variant product development.

(08 Marks)

(08 Marks)

10 a. What is Product data technology? Explain variant management.