USN 17ME835

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

Time: 3 hrs. Max. Marks: 100

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

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		Module-1	
1	a.	Define Product Life Cycle Management. Discuss the Opportunities (any 4) of Product Life	
1	a.	Cycle Management.	(10 Marks)
	b.	Discuss briefly the various Components of Product Life Cycle Management.	(10 Marks)
	U.	Discuss offerly the various components of Froduct Dife Cycle Management.	(10 Marks)
		OR	
2	a.	Discuss briefly the steps involved in the development of a PLM strategy.	(10 Marks)
	b.	Explain the basic component of Product Data Management System.	(10 Marks)
		Module-2	
3		List the benefits and objectives of a good Product Design.	(10 Marks)
3	a. b.	What is Concurrent Engineering? List the advantages of Concurrent Engineering.	(5)
	υ.	what is Concurrent Engineering? List the advantages of Concurrent Engineering.	(10 Marks)
		OR	
4	a.	Discuss briefly the various steps involved in Product Design Process.	(07 Marks)
	b.	What is Product Recycling? Also discuss the benefits of Recycling.	(13 Marks)
		Module-3	
5	a.	What is New Product Development (NPD)? Discuss the need for NPD.	(10 Marks)
3	b.	Explain the step involved in NPD.	(10 Marks)
	υ.	Explain the step involved in 141 B.	(10 1/14/145)
		OR	
6	a.	Explain the steps involved in structuring New Product Development.	(14 Marks)
	b.	List the characteristics of an ideal Decision Support System.	(06 Marks)
		Module-4	
7	a.	Discuss the meaning of Technological change with examples. Also mention its	impact on
,	a.	Society.	(10 Marks)
	b.	Explain the following Technology Forecasting method:	(
		Brain Storming, Delphi technique and Scenario writing.	(10 Marks)
	A		•
•	(	OR	_
8	a.	What is Technology Forecasting? Mention the reasons for Technology Forecasting	g. (08 Marks)
	b.	Explain 'Relevance Tree Technique' of Forecasting with a suitable example.	(12 Marks)
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	Module-5		
9	a.	What is Virtual Product Development? Mention the benefits of Virtual	
		Development.	(10 Marks)
	b.	Discuss the 3D, CAD system used for Virtual Product Development, also	
		benefits.	(10 Marks)
		OR BANGALORE - 560 037	
10	a.	What is Product Data Technology? Discuss the classification of Product Data.	(10 Marks)
_•	b.	Illustrate the Generic Product Structure of a Bicycle.	(10 Marks)
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