15ME835

Time 3 his.

Eighth Semester B.E. Degree Examination, November 2020 Product Life Cycle Management

Max. Marks: 80

Note: Answer any FIVE full questions irrespective of modules.

		Module-1		
1		Expirem the different production	(08 Marks)	
	b.	Explain the component of PLCM.	(08 Marks)	
2	a.	Explain in brief the basic components of a PDM system.	(08 Marks)	
2		Explain the process of implementing the PLM strategy.	(08 Marks)	
	O.			
		Module-2		
3	a.	Discuss the various steps involved in product design.	(08 Marks)	
	b.	What is Design for X in product design? List the various techniques in design for X	X-system. (08 Marks)	
			(00 Marks)	
	4 . 3	1107 - 124 C		
4	a.	What is product recycling? Discuss the benefits of product recycling.	(08 Marks)	
19	b.	Discuss in brief the various human factors to be incorporated during product design	n.	
1	. *		(08 Marks)	
	- '-	Module-3		
5	a.	Define New Product Development (NPD) and discuss the need for NPD.	(08 Marks)	
5	b.	Discuss components for building Decision Support System (DSS).	(08 Marks)	
		a And And		
6	a.	Explain the steps involved in product Redesign.	(08 Marks)	
	b.	What are different factors for estimating market opportunities for new product?	(08 Marks)	
		Modulo 4		
7		What is technology forecasting? State the need for technology forecasting.	(07 Marks)	
7	a. b.	Write short notes on:	(0 / 1/11/11/11/11/11/11/11/11/11/11/11/11	
	υ.	i) Delphi technique ii) Scenario writing iii) Growth curves.	(09 Marks)	
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			Commence of the Commence of th	
8	a.	Discuss the mission flow diagram in technology forecasting.	(08 Marks)	
	b.	Briefly discuss the various methodologies and tools in product innovation process	(08 Marks)	
			(00 Marks)	
		Module-5		
9	a.	Write short notes on: i) 3D CAD system ii) Digital Mock-up.	(08 Marks)	
	b.	Discuss the need and benefits of virtual product development.	(08 Marks)	
		0.1	(00 M - 1)	
10	a.	What is data model? Discuss the different types of data models.	(08 Marks) (08 Marks)	
	b.	Explain the important guidelines to be followed in writing product description.	(09 Marks)	

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2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.