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15ME835

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

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions irrespective of modules.

		Twie. Answer any 111 Lyan questions areas	
		Module-1 CDI CM with a past sketch	(08 Marks)
1	a.	Explain the different phases of PLCM with a neat sketch.	(08 Marks)
	b.	Explain the component of PLCM.	(00 Marks)
2	a.	Explain in brief the basic components of a PDM system.	(08 Marks)
_	b.	Explain the process of implementing the PLM strategy.	(08 Marks)
	υ.		
		Module-2	(00 % 1)
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-system.
			(08 Marks)
		Y'	
		What is product recycling? Discuss the benefits of product recycling.	(08 Marks)
4	a.	Discuss in brief the various human factors to be incorporated during product design	gn.
	b.	Discuss in orientile various numan factors to be incorporated assets a	(08 Marks)
		Module-3	(00 3/4 - 1)
5	a.	Define New Product Development (NPD) and discuss the need for NPD.	(08 Marks)
	b.	Discuss components for building Decision Support System (DSS).	(08 Marks)
			(08 Marks)
6	a.	Explain the steps involved in product Redesign.	(08 Marks)
	b.	What are different factors for estimating market opportunities for new product?	(Uo Iviai Ks)
		Module-4	
_	100	What is technology forecasting? State the need for technology forecasting.	(07 Marks)
7	a.	Write short notes on:	
	b.	i) Delphi technique ii) Scenario writing iii) Growth curves.	(09 Marks)
		1) Delphi technique in Beenario wreing	
8	a.	Discuss the mission flow diagram in technology forecasting.	(08 Marks)
	b.	. ~ 1 in the delegated and tools in product innovation blocks	SS.
			(08 Marks)
		Module-5	
0	0	With the strategy on : i) 3D CAD system ii) Digital Mock-up.	(08 Marks)
9		1 11 Circ - Countried product development	(08 Marks)
	b	. Discuss the field that controls	
10	0 a	What is data model? Discuss the different types of data models.	(08 Marks)
17	u a b		(08 Marks)
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Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.