CBCS SCHEME

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USN

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.	
		Module-1	
1	a.	Explain the different phases of PLCM with a neat sketch.	(08 Marks)
	b.	Explain the component of PLCM.	(08 Marks)
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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)
		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	
		L & Y	(08 Marks)
4	a.	What is product recycling? Discuss the benefits of product recycling.	(08 Marks)
	b.	Discuss in brief the various human factors to be incorporated during product desig	
		Y S	(08 Marks)
		Module-3	
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)
6	0	Explain the steps involved in product Redesign.	(08 Marks)
6	a. b.	What are different factors for estimating market opportunities for new product?	(08 Marks)
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_		Module-4	(07 N/ - I)
7	a.	What is technology forecasting? State the need for technology forecasting. Write short notes on:	(07 Marks)
	b.	i) Delphi technique ii) Scenario writing iii) Growth curves.	(09 Marks)
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			(00 % 1)
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)
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9	0	Write short notes on: i) 3D CAD system ii) Digital Mock-up.	(08 Marks)
9	a. b.	Discuss the need and benefits of virtual product development.	(08 Marks)
	U.	Discuss the floor and continues. Antali product as triopins.	,
10) a.	What is data model? Discuss the different types of data models.	(08 Marks)
	b.	Explain the important guidelines to be followed in writing product description.	(08 Marks)