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USN

Seventh Semester B.E. Degree Examination, July/August 2021 Product Life Cycle Management

Time: 3 hrs.

Note: Answer any FIVE full questions.

Max. Marks:100

1	a.	With a neat sketch, explain the PLM lifecycle model.	(08 Marks)
	b.	Explain the feasibility study which leads to a report of the form X contents.	(08 Marks)
	c.	Write a short notes on:	
		i) Engineering Data Management	
		ii) Computer Integrated Manufacturing	(04 Marks)
2	a.	List and explain any four characteristics of P.L.M.	(10 Marks)
	b.	Explain any two external drivers of PLM.	(05 Marks)
	c.	Explain the PLM elements which is in the form of triangle matrix.	(05 Marks)
3 a.	Explain the importance and reasons for implementing PDM systems in organization	cations.	
			(10 Marks)
	b.	Explain the following:	
		i) Versioning	
		ii) Check in and Checkout.	(10 Marks)
4	a.	Write a brief on engineering vaulting and product reuse.	(08 Marks)
	b .	How to achieve a Bill Of Materials (BOM) in organizations?	(06 Marks)
	c.	Explain the Design For Environment (DFE).	(06 Marks)
	a.	Explain the process of creation of 3D XML and CAD drawing using CAD sof	tware.
			(10 Marks)
	b.	How an acrobat 3D document is crated? Explain the different steps involved in	1 it? (10 Marks)
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6 a.	a.	What are the need for design parameterization giving suitable example of	an automotive
		product?	(10 Marks)
	b .	Briefly explain the problems and solution of optimization of product?	(10 Marks)
7	a.	What is digital manufacturing? Explain.	(04 Marks)
	b.		(06 Marks)
	c.	Explain the concepts of virtual learning curve.	(05 Marks)
	d.	Write a brief note on manufacturing the first one and ramp up.	(05 Marks)
b.	a.	How PLM strategy is implemented? Mention five success factors for ERP pro	ject. (08 Marks)
	b.	Explain the initiatives of PLM to support corporate objectives.	(06 Marks)
	c.	Explain the infrastructure assessment in P.L.M.	(06 Marks)

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.