

15ME835

Eighth Semester B.E. Degree Examination, June/July 2019

Product Life Cycle Management

Time: 3 hrs.

Max. Marks: 80

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		Note: Answer any FIVE full questions, choosing ONE full question from each module.			
e)					
actio			Module-1		
alpr	1	a.	Define PLM. List and explain the different phases of Product Life Cycle.	(06 Marks)	
s ms		b.	8). — F	(04 Marks)	
sd a		C.	List the benefits of PLM.	(06 Marks)	
reate			O.D.		
be t	2		OR	1	
vill v	2	a.	Sketch and explain the PLM has a holistic approach to the management of a pro		
0, 1		b.	List and explain the various opportunities of PLM.	(06 Marks)	
		c.		(06 Marks)	
2+8		٥.	What do you mean by I Livi leasionity study: Explain.	(04 Marks)	
4,	Module-2				
su e	3	a.	77 T	(04 Marks)	
ritte		b.		(04 Marks)	
JS W		c.	Sketch and explain the recovery strategies at end of life.	(06 Marks)	
ation			The state of the s	(00 Marks)	
edns			OR		
/or	4	a.	Sketch and explain the comparison between sequential and concurrent er	gineering in	
pun			product development process.	(06 Marks)	
tor a		b.	List and explain the most common DFX techniques used in the product	design and	
ılua			development process.	(06 Marks)	
eva		C.	Explain the human factors to be considered in product design.	(04 Marks)	
al to					
2. Any revealing of identification, appeal to evaluator and l or equations written eg, $42+8=50$, will be treated as malpractice			Module-3		
n, a	5	a.	Sketch and explain the various activities of new product development.	(08 Marks)	
atio		b.	How do you estimate the market potential of a new product? Explain.	(08 Marks)	
ific			Car San		
den			OR		
ofi	6	a.	What is Decision Support System? How it is helpful in decision making? Explain	in. (08 Marks)	
ing		b.	With the aid of a flow chart, explain the process of launching and tracking of a r		
veal				(08 Marks)	
y re			Module-4		
An	7	a.	Define Technology Forecasting. Explain why technology forecasting is importa	nt	
2	,	٠.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(08 Marks)	
		b.	List and explain any one method of Technology Forecasting.	(08 Marks)	
			- 3	,	

OR

- 8 a. Sketch and explain the importance of 'Relevance Tree' by taking Automobile as an example. (08 Marks)
 - b. List and explain the importance of ideation tools in the innovation process.

(08 Marks)

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Module-5

9 a. What is Model building? How do you classify them? Explain.

(06 Marks)

b. Explain the following:

i) Product structures

ii) Digital mock - up.

(10 Marks)

OF

10 Explain the following:

a. Data model.

b. Product configuration.

c. 3D CAD systems.

d. Variant Management.

(16 Marks)