15-06-2026 BE MECHANICAL SEM-VII C CHEME PLM QP CODE: 20013946

Duration: 3 Hours **Maximum Marks: 80**

N.B.: -

1. **Question No 1 is Compulsory**
2. **Solve any three questions from remaining questions**
3. **Assume suitable data if required and mention it clearly**
4. **Figures to right indicate full marks**

Q1		**Solve any four of following**	
	[A]	Explain advantages and limitations of Life Cycle Assessment.	**5**
	[B]	What do you mean by sustainable development?	**5**
	[C]	With respect to Product Life Cycle Management explain opportunities to Globalization	**5**
	[D]	Explain organization and Decomposition in Product Design	**5**
	[E]	State Importance and benefits of PLM	**5**
Q2	**[A]**	How will you develop PLM vision and PLM Strategy explain with suitable example.	**10**
	[B]	What do you mean by New Product Development? Explain Product Configuration and Variant Management.	**10**
Q3	**[A]**	Explain various components of PDM in detail.	**10**
	[B]	With respect virtual product development tools explain 3D CAD systems and realistic rendering techniques.	**10**
Q4	**[A]**	Explain concept for Design for Environment in detail with suitable example.	**10**
	[B]	Write a brief note on:-Evolution of Models for Product Life Cycle Cost Analysis.	**10**
Q5	**[A]**	With suitable Example Explain concept of Concurrent Engineering in detail.	**10**
	[B]	With suitable example of your choice explain how modelling and simulation helps in product design.	**10**
Q6		Write short notes on: -	
	[A]	Design for X	**10**
	[B]	Barriers to PDM implementation	**10**

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