Total Marks: 80

Duration: 3 Hours

N.B.:-

1. Solve any four questions
2. Assume suitable data if required and mention it clearly
3. Figures to right indicate full marks

Q1	A]	Explain barriers to PDM implementation.	5
	B]	What do you mean by Digital Mock-up? Explain in detail.	5
	C]	Write short note on-Sustainable Development.	5
	D]	Explain general framework for LCCA.	5

Q2	A]	Explain components of PDM. Also explain reasons for implementing PDM system.	10
	B]	Explain Product Lifecycle phases. Explain PLM applications.	10

Q3	A]	With the help of suitable example explain how modelling and simulations help in product design .	10
	B]	What aspects you will consider in developing PLM vision and PLM strategy.	10

Q4	A]	Explain life cycle environmental strategies and considerations for product design in detail.	10
	B]	What do you mean by concurrent Engineering? State characteristic features of concurrent engineering.	10

Q5	A]	Explain fields of application and limitations of life cycle assessment in detail.	10
	B]	What do you mean by New Product Development? Explain various strategies for new product development.	10

Q6   Write short notes on:-

A]	Change management for PLM	5
B]	Pre-PLM environment	5
C]	Typologies of design process models.	5
D]	Design for X	5