

24 NOV 2025 BE EXTC (SEM-VII) C SCHEME PLM QP CODE: 10094344

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	
[A]	State and Explain few applications of PLM	5
[B]	What do you mean by Reference Model? Explain in brief.	5
[C]	Explain need for Life Cycle Environmental Strategies	5
[D]	Explain limitations of Life Cycle Assessment	5
[E]	Explain concurrent engineering.	5
Q2	[A] What do you mean by Sustainable Development. Explain Concept of design for Environment?	10
	[B] Explain financial justification of PDM and barriers to PDM implementation	10
Q3	[A] Explain reasons for implementing a PDM. What are different barriers to PDM implementation	10
	[B] What do you mean by New Product Development (NPD)? Explain concept of Product Configuration and Variant Management.	10
Q4	[A] How will you choose Design for X Tools . Explain their Use in the Design Process	10
	[B] Explain various Components of PDM	10
Q5	[A] With suitable example explain importance & Benefits of PLM,	10
	[B] Explain General Framework for LCCA	10
Q6	Write Short notes on:-	
[A]	Digital Mock- up	10
[B]	End-of-Life Strategies	10
