[Total Marks: 80]

	(3 Hours) [Total Marks	; : 80
N.B.:	Please check whether you have got the right question paper.  1. Solve any four questions.  2. Assume suitable data if any.	
1.	Explain any four	20
	A. ISO 1400 framework	Co
	B. Simultaneous engineering	
	C. What is digital mockup? State its benefits and list software use for its	
	D. Explain Product design for environment.	
	E. PLM Vision and Strategies.	
2.	A) What do you mean by Design for X. How will you use design for X tools in	20
	the design process?	
	B) Explain useful life extension strategies.	20
3.	A) Explain the general framework of LCCA.	20
	B) What is sustainable development? Explain role of science & technology in	20
	it. The state of t	
7 4	A) Discuss new product development process.	20
<b>4.</b>		20
	B) Explain cost analysis and life cycle approach in detail.	20
S) E	A) Explain the strategies for recovery at the end-of-life cycle	20
5.		20
	B) What is the virtual product development process? Write its applications and advantages.	20
	advantages	
6		20
6.	A) With Suitable example explain various product life cycle phases. Explain	20
	importance and benefits of PLM.	••
	B) Explain various reasons for implementation of PDM system. Explain	20
	various barriers for PDM implementation.	
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