Total No. of Questions : 10]		SEAT No. :
P3774	[5050] 530	[Total No. of Pages :

[5059]-539

B.E. (Mechanical)

	(2	PRODUCT DESIGN & DEVELOPMENT 2012 Pattern) (Semester - I) (Elective - II) (402)	
Instr	uction 1) N 2) I	Hours] as to the candidates: Neat diagrams must be drawn wherever necessary. Figures to the right side indicate full marks. Assume Suitable data if necessary.	[Max. Marks: 70
Q1)	Wha	nt is Product Design Team? Explain any Six Roles in Team	m in detail. [10]
		OR	
Q2)		at are disadvantages of Traditional Design Process? Expedure of Modern Product Development.	plain systematic [10]
Q3)	a)	Explain Product verification and validation in detail.	[6]
	b)	What is necessity of Economic Analysis of Product? El	aborate. [4]
		OR	
Q4)	a)	Explain Pugh's concept selection chart with suitable exa	ample. [6]
	b)	What is necessity of Technology Forecasting? Explain.	[4]
Q5)	proc	at is Forward and Reverse Engineering? Discuss the redure of Product Tear Down. Explain Force Flow Diaching Machine.	
0.0	`	OR	5
Q6)	a)	Explain the procedure for setting Product Specifical Specification Sheet for suitable example with Function and Constraints.	
	b)	Explain any Two Product Architectures.	[8]

<i>Q7</i>)	a)	Explain the guidelines for Design for Assembly.	[6]
	b)	What are guidelines for Design for Robustness? Discuss.	[5]
	c)	Explain the guidelines for Design for Welding.	[5]
		OR	
Q8)	a)	Discuss in detail Function Form Diagram with suitable example.	[8]
	b)	Discuss various Regional and Global issues of Environme Pollution.	ntal [8]
Q9)	a)	Elaborate the concept of Product Life Cycle Management. Explain role of People, Tools, Processes, Methods and Data in PLM.	the [10]
	b)	Discuss various phases of lifecycle and corresponding technolo applied in.	gies [6]
		OR	
Q10) (a)	Discuss the Essential characteristics of PLM system.	[8]
	b)	Discuss the concept of Product Data and Product Workflow.	[8]

• • •