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B.E. /Insem. - 22

B.E. (Mechanical Engineering)

PRODUCT DESIGNAND DEVELOPMENT

(2012 Pattern) (Semester - I) (Elective - II)

Time: 1 Hour]		Iour] [Max. Marks	[Max. Marks : 30	
Instructions to the candidates:				
	1)	All questions are compulsory.		
	<i>2</i>)	Figures to the right indicate full marks.		
	<i>3</i>)	Use of non programmable calculator is allowed.		
	4)	Assume suitable data, if necessary.		
Q 1)	a)	Explain factors to be considered for product design.	[5]	
	b)	Differentiate between product verification and product validation.	[5]	
		OR		
Q 2)	a)	Explain phases of product design.	[5]	
	b)	Explain product testing.	[5]	
<i>Q3</i>)	a)	Explain S Curve with suitable example.	[5]	
	b)	Explain market segmentation with suitable example.	[5]	
		OR		
Q 4)	a)	Explain customer need with suitable example.	[5]	
	b)	Explain how will you carry out analysis of gathered information.	[5]	
Q 5)	a)	Explain the concept of lateral thinking with suitable example.	[5]	
	b)	Explain subtract and operate procedure.	[5]	
		OR		
Q6)	a)	Explain, morphological analysis with suitable example.	[5]	
	b)	Explain Pugh's concept.	[5]	

