Total No. of Questions : 4]	8	SEAT No. :
P8978		[Total No. of Pages : 1

## Oct-22/BE/Insem-62

## B.E. (Mechanical Engineering) PRODUCT DESIGN AND DEVELOPMENT

(	2019 Pattern) (Semester-VII) (Elective - IV) (402)	045 A)	
Time: 1		Max. Marks : 30	
	ons to the candidates:	Max. Marks . 30	
1)	Answer Q1 or Q2, Q3 or Q4.		
2)	Neat diagrams must be drawn wherever necessary.		
3)	Figures to the right indicate full marks.	•	
4)	Use of electronic pocket calculator is allowed.		
<i>5</i> )	Assume suitable data, if necessary.		
	18. No. 18. No		
<b>Q1</b> ) a)	Explain product development process.	[7]	
b)	Explain Morphology of product design by ASIMOW.	[8]	
	OR		
<b>Q2</b> ) a)	Write a short note on Product Life Cycle.	[6]	
b)	Explain Engineering Design process.	[5]	
c)	Explain the reasons for product failure in brief.	[4]	
	26.1		
<b>Q</b> 3) a)	Explain Technology of S Curve with suitable example.	[7]	
b)	Explain QFD (Quality Function Deployment) approa	ch of modern	
	product development.	[8]	
O)	OR OR	<b>\</b>	
<b>Q4</b> ) a)	Explain Customer need Models in brief.	[6]	
b)	Explain market segmentation in detail with suitable examp	ble. [5]	
c)	Illustrate the philosophy of TRIZ methodology.	[4]	
	6.2		