Total No. of Questions : 6]	90	SEAT No.:	
P1406		[Total	No. of Pages :

## BE/Insem./APR-175

## **B.E.** (Mechanical Engineering)

## PRODUCT DESIGNAND DEVELOPMENT

	(2015 Course) (Semester - II) (Elective - IV) (402050C)
Time : 1	Hour] [Max. Marks :30
Instructi	ons to the candidates:
1)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6.
2)	Neat diagrams must be drawn wherever necessary.
3)	Assume suitable data if necessary.
<b>Q1</b> ) a)	What is meant by Product design explain various phases of Product
	design. [6]
1- )	Diegonomiata la terra de la constanta de la co
b)	Differentiate between product design and product development. [4]
	OR
<b>Q2</b> ) a)	Which are the three "S" of product design and what are their advantages
	in product development process. [4]
1-)	What is House of Owlite avaloin how it is used in the Day duct
b)	
	development process. [6]
<b>Q3</b> ) a)	Explain Basic method of mission statement and technical questioning in
£0, w,	product development process with template and state its advantages.[6]
b)	Draw and explain Kano-Model for customer satisfaction with suitable
	example. [4]
	OR
<b>Q4</b> ) a)	Explain the various phases of S-Curve used in technology forecasting.[5]
~ /	
b)	Explain the concept of market segmentation and how it is useful in Product
	design. [5]
	9.

Qs)	a)	List advantages and disadvantages of brainsforming methods generation.	[4]
	b)	Which are the methods for product information gathering.	[6]
		OR	
<b>Q6</b> )	a)	Explain FAST method for development of product function.	[5]
	b)	Explain concept selection process.	[5]
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