Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY BE SEMESTER- 7th EXAMINATION - SUMMER 2015

Ü		ate: 04/05/2015	
	•	t Name: Product Design and Value Engineering 02.30PM-05.00PM Total	al Marks: 70
Ins	tructio	ons:	
	2.	Attempt all questions.Make suitable assumptions wherever necessary.Figures to the right indicate full marks.	
Q.1	(a) (b)	Discuss the importance and objectives of product design. Explain the FAST diagram procedure with proper illustrations.	07 07
Q.2	(a) (b)	Explain with illustration the phases of industrial design processes. Explain the method of generic product development process.	07 07
	4	OR	0=
	(b)	Explain the costumer's needs and product development process.	07
Q.3	(a) (b)	Explain the procedure of product planning process. Explain the designing characteristics for machines and machine tools.	. 07 . 07
	(D)		. 07
Q.3	(a)	OR Define product life cycle. Discuss in details with proper illustrations.	07
•	(b)	Explain the various criteria of product development.	07
Q.4	(a)	Define value, value engineering and value analysis. Discuss with illus	
	(b)	Discuss the different phases of value analysis job plan. OR	07
Q.4	(a)	Explain the procedure of value engineering and value analysis.	07
	(b)	Discuss the various types of value with proper illustrations.	07
Q.5	(a)	Discuss the classification of function.	07
	(b)	Explain quality function development. OR	07
Q.5	(a)	Discuss the function evaluation technique.	07

(b) Discuss the type of organization for product development.

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