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Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. - SEMESTER - VII • EXAMINATION - WINTER 2012

Subje	ect o	code: 171904 Date: 27/12/2012	2
_		Name: Product Design and Value Engineering	
		0.30 am - 01.00 pm Total Marks: 70)
Instr			
	2.	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)		07 07
Q.2	(a)	Explain the importance of product planning. Explains product planning process in detail.	07
	(b)	•	07
	(b)		07
Q.3	(a)	Explain the designing for stiffness and rigidity with reference to machines and machine tools.	07
	(b)		07
Q.3	(a)	Explain the following in connection with design for manufacturing: 1. Reduction of cost of components, 2. Reduction of cost of assembly	07
	(b)		07
Q.4	(a) (b)	Explain the value standards.	07 07
Q.4	(a)	1 3	07
	(b)	selection of evaluation of value engineering projects? Explain the different phases of value engineering job plan in brief.	07
Q.5	(a) (b)	•	07 07
Q.5	(a) (b)	Explain the life cycle cost in detail.	07 07