Seat	t No.:		Enrolment No	_
		GUJARAT TECHNOLOG		
		M. E SEMESTER – II • EXAMIN		
	U	code: 1725008	Date: 23-06-2014	
	•	Name: Rapid Prototyping 2:30 pm - 05:00 pm	Total Marks: 70	
Inst	tructio			
	2.	Attempt all questions. Make suitable assumptions wherever n	•	
	3.	Figures to the right indicate full marks.		
Q.1	(a)	Explain the factors which are influencing	g on product design.	
	(b)	Represent the stages of product develop	ment cycle diagrammatically.	
Q.2	(a)	What do you mean by ideation? Desc	-	
	(b)	product approachö that can be taken in in List the benefits of virtual prototyping at		
	(6)	OI		
	(b)	Enlist the various technologies use for	or prototyping and testing in virtual	
		world. Explain any two of them in brief.		
Q.3	(a)	Explain two different types of surface m	odels.	
	(b)	Write the requirements of a solid modeli OF	_	
Q.3	(a)	Write the short note on boundary repres		
	(b)	Explain the problems involved in the type methods.	measurement process by non-contact	
Q.4	(a)	Explain the concept of discretization wit	h suitable example.	
	(b)	Mention the guidelines for oDesign for r OF		
Q.4	(a)	Write the classification of robots base motion.	d on arm configuration and type of	
	(b)	Write the short note on Generative type	computer aided process planning.	
Q.5	(a)	Write the industrial applications of robo		
	(b)	Engineering	t , Group Technology, Concurrent	
0.5		OF		
Q.5	(a)	Explain with sketch the laminated object Write the advantages and limitations of	0 1	
	(b)	write the advantages and inilitations of	sicreo-minography (SLA) process.	
