Seat No.: Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER-IV • EXAMINATION - SUMMER 2013

Subj	ect	Code: 740801 Date: 14-05-2013	
Subj	ect :	Name: Rapid Prototyping and Tooling	
Time: 10.30 am - 01.00 pm Instructions: Total Marks: 70			
	1.	Attempt all questions.	
	2.	Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	A.	What is rapid Prototyping System? Describe briefly a s stem showing all its components.	07
	В.	What are the application in product development for rapid Prototyping? Explain.	07
Q.2	A.	What is Reverse Engineering? Explain R.E. process giving at least one example in brief.	07
	В.	How data points are acquired in reverse engineering? Explain various methods.	07
		OR	
	В.	Explain Data handling and reduction methods in reverse engineering.	07
Q.3	A.	Explain virtual reality and Augmented reality? Compare these two.	07
	В.	Explain procedure for constructing the 3D model.	07
		OR	
	Α.	Explain types of CAPM system.	07
	В.,	Explain concurrent system architecture.	07
Q.4	A.	Describe Stereolipthography process for rapid Prototyping.	07
	В.	Explain liquid based RP process.	07
		OR	07
	A.	Explain in detail design for X	
	В.	What is 'Canned cycle'? Explain with neat sketch the difference between operation of the canned cycles G81 and G83	07
Q.5	Α.	Explain the benefits of product data management system	07
	В.	Compare the shape based and product data based exchange standards. Which has the potential to support industrial automation? Wh?	07
	A.	OR Classify in detail the rapid tooling process.	07
	В.	Mention the criteria to be evaluated by a company when selecting a	07
	ъ.	particular type of rapid prototype process.	U /
