GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER - VIII EXAMINATION – WINTER 2015

Subject Name: Rapid Manufacturing			Date:07/05/2015	
			Total Marks: 70	
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	Write about concurrent engineering. Discuss the manufacturing competitiveness of rapid manufacturing	o7 ng. 07	
Q.2	(a) (b)	Explain the role of IT in rapid manufacturing. Write about product data management. OR	07 07	
	(b)	What is product life cycle? Explain with suitable sketches.	07	
Q.3	(a) (b)	Explain the significance of DFMA in rapid manufacturing. Explain any one liquid based rapid prototyping method. OR	07 07	
Q.3	(a) (b)	Explain fused metal deposition system with neat sketch. Write about the applications and advantages of rapid prototyping	9. 07	
Q.4	(a) (b)	Discuss the limitation of materials in rapid prototyping. What is the significance of CAD in rapid prototyping? Explain. OR	07 07	
Q.4	(a) (b)	Discuss the production economics of rapid manufacturing. Explain the application of rapid manufacturing for plastic productions.	ets. 07	
Q.5	(a) (b)	Explain the working principle of ThermoJet printer with neat ske Explain quick cast process.	etch. 07	
Q.5	(a) (b)	OR What is rapid tooling? Explain with one example. Discuss the significance of rapid tooling technology for tooling in	ndustry. 07	
