Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII EXAMINATION - WINTER 2015

Subject Code:183401			Date:16/12/2015	
Ti	•	Attempt all questions. Make suitable assumptions wherever necessary.	70	
Q.1	(a) (b)	Explain the life-cycle concept of product design. Explain the stages of rapid prototyping information workflow.	07 07	
Q.2	(a) (b)	What is the significance of artificial intelligence in manufacturing? Explain. What is the difference between conventional and intelligent CAD systems? Explain.	07 07	
	(b)	OR Explain the acquisition and organization of analysis knowledge for the expert system.	07	
Q.3	(a) (b)	Explain intelligent design system implementation for manufacturing. Write about existing methods and tools for concurrent engineering. OR	07 07	
Q.3	(a) (b)	Discuss the advantages and limitations of JIT system. Write about computer-based assembly planning.	07 07	
Q.4	(a) (b)	Explain the classification of rapid prototyping methods. Explain FDM system with neat sketch. OR	07 07	
Q.4	(a) (b)	State any five applications of rapid protyping and explain briefly. Explain the working principle of JP System 5 with neat sketch.	07 07	
Q.5	(a) (b)	Compare direct and indirect methods for rapid tool production. Explain the applications of rapid tooling technology. OR	07 07	
Q.5	(a) (b)	Name three metal deposition techniques and explain. How will you fabricate silicon rubber moulds? Explain.	07 07	
