GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER-VIII • EXAMINATION – SUMMER 2013

		Code: X81903 Date: 17-05-2013 Name: Computer Integrated Manufacturing	
Time: 10.30 pm - 01.00 pm Total Marks: 70			
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary.	
Q.1	(a) (b)	Explain utilization of CNC machines in batch production. Explain axes designation for CNC machines.	07 07
Q.2	(a) (b)	Explain G00, G01 and G03 codes with appropriate example. Explain open loop and closed loop control system of CNC machines. OR	07 07
	(b)	What is canned cycles? Explain any three canned cycles with their syntax.	07
Q.3	(a) (b)	Define GT. Explain parts classification and coding for GT. What is composite part concept? Explain objectives of cellular manufacturing. OR	07 07
Q.3	(a) (b)	Explain different types of machine cells and layouts in GT. Explain different types of flexibilities in FMS.	07 07
Q.4	(a) (b)	Explain different FMS components. Explain types of FMS. OR	07 07
Q.4	(a) (b)	Explain common robot configurations. Explain different applications of robots.	07 07
Q.5	(a) (b)	Explain Retrieval CAPP system. Explain production planning and production control. OR	07 07
Q.5	(a) (b)	Explain Generative CAPP system. List inputs to the MRP and explain each of them.	07 07
