Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY PDDC SEMESTER VIII- EXAMINATION - SUMMER 2017

	•	Code: X81903 Date: 05/05/201	17	
Subject Name: COMPUTER INTEGRATED MANUFACTURING Time: 10.30AM to 01.00PM Instructions:		0.30AM to 01.00PM Total Marks:	Marks: 70	
Ins	1. 2. 3.	ns: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	State various models of CIM. Explain any one in detail. Explain axis designation for CNC machines.	07 07	
Q.2	(a) (b)	Explain G00, G01 and G03 codes with appropriate example. What are canned cycles? What is the difference between a canned cycle and subroutine? Discuss how a canned cycle can be useful in writing a part program.	07 07	
	(b)	OR What is DNC? What are the advantages of using DNC on the shop floor?	07	
Q.3	(a) (b)	Define GT. Explain OPITZ coding system for GT. Explain different types of flexibilities in FMS. OR	07 07	
Q.3	(a) (b)	Explain AS/RS and AGV for manufacturing system. Explain JIT technique used in auto industries.	07 07	
Q.4	(a) (b)	Define robot. Discuss the different types of sensors used in robotics. Explain different applications of robots. OR	07 07	
Q.4	(a) (b)	Explain with neat diagram Retrieval - type CAPP system. List inputs of MRP and explain each of them in detail.	07 07	
Q.5	(a) (b)	Distinguish between FMS and FMC. Explain open loop and closed loop control system of CNC machines. OR	07 07	
Q.5	(a) (b)	Explain role of Computer in Industry What are the benefits of CIM?	07 07	
