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GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VII EXAMINATION – WINTER 2015

Subject Code: 173403 Subject Name: Computer Integrated Manufacturing			Date:09/12/2015	
Time: 10:30am to 1:00pm To Instructions:		10:30am to 1:00pm Total Marks:	Fotal Marks: 70	
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	Define CIM. List major elements of CIM system. What do you mean by CIM architecture? Explain data management in CIM environment.	07 07	
Q.2	(a) (b)	Discuss MICLASS coding system.	07 07	
	(b)	OR Write short note on shop floor control.	07	
Q.3	(a) (b)	Explain variant approach of computer aided process planning (CAPP). Discuss benefits of CAPP.	07 07	
		OR		
Q.3	(a) (b)	Describe automated production lines. Write 10 principles of material handling.	07 07	
Q.4	(a) (b)	What is AGV? Explain different types of AGVs. Why storage systems needed? Describe the factors used for performance measurement of storage system.	07 07	
		OR		
Q.4	(a) (b)	Define FMS. Explain basic components of FMS. List types of FMS layout. Explain any one FMS layout with sketch.	07 07	
Q.5	(a)	What are the advantages of LAN implementations? Discuss about network management.	07	
	(b)	Describe various types of Automated Storage / Retrieval System. OR	07	
Q.5	(a) (b)	Draw and explain the logical layout of Network Topology. Write short notes on Factory Data Collection System.	07 07	
