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BME-005

B.Tech. MECHANICAL ENGINEERING (COMPUTER INTEGRATED



MANUFACTURING)

Term-End Examination

June, 2016

BME-005 : COMPUTER INTEGRATED MANUFACTURING

Time: 3 hours Maximum Marks: 70 **Note:** Attempt any **five** questions. 1. (a) Discuss the concept of CIM wheel. What are the benefits of CIM? 7 (b) Discuss the scope of CIM in the context of business, production and design. 7 What are the various types of AS/RS? 2. (a) explain Briefly their features and applications. 7 Describe any one type of AGVs control (b) method. 7

Э.	(a)	and machine time index.	7
	(b)	What are the different types of CNC machines? Also write the advantages and limitations of CNC machines.	7
4.	(a)	Describe cellular manufacturing system and its features.	7
	(b)	What do you understand by machine loading? What are the main objectives of machine loading?	7
5.	(a)	Explain any one simulation package used in modelling FMS.	7
	(b)	Briefly discuss the various steps in developing a simulation model of production system.	7
6.	(a)	Briefly describe the 'computer-aided process planning'.	7
	(b)	Explain in brief 'Manufacturing Resource Planning (MRP-II)'.	7

7.	(a)	What are the differences between static and dynamic simulation models?	7
	(b)	Explain in brief 'Tabu search' optimization method.	7
8.	(a)	Describe the different types of database management systems.	7
	(b)	What are the different social and economic factors which promote the developments of	
		automated industry?	7