01745

BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING (COMPUTER INTEGRATED MANUFACTURING)

Term-End Examination June, 2012

BME-012: MANUFACTURING SYSTEMS, INTEGRATION AND CONTROL

Time: 3 hours			Maximum Marks: 70
Not			uestion of the following. Use o
1.		manufacturing con	types of databases used 10 trol system? Explain in
2.	Exp (a) (b)	lain the following. Shop Floor Contr JIT Production Sy	
3.	Exp (a) (b)	lain the following : Control Architect Hierarchical Con	

4.	Explain CIM database and multi objective decision support system. Also explain the role of Sensor's in CIM strategy.			
5.	What do you understand by the term "Agile Manufacturing System"? Briefly explain various advantages of agile manufacturing.			
6.	What do you understand by "Rapid Response Manufacturing"? Describe the role of computer and IT for Rapid Response Manufacturing.			
7.	What is meant by "Bionic Manufacturing System"? How a Bionic Manufacturing System is used to make the system intelligent?	10		
8.	(a) Describe the role of IT in improving performance of supply chain.(b) Describe the role of e-collaboration in improving performance of supply chain.	5+5		
9.	What is knowledge management? Briefly describe general issues of knowledge representations.			
10.	Why is AGV Scheduling considered as a critical decision making problem? Give some features of AGV Scheduling.	10		