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BME-023

Maximum Marks: 70

BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING (COMPUTER INTEGRATED MANUFACTURING)

01112

Time: 3 hours

Term-End Examination
December, 2011

BME-023 : ADVANCED MANUFACTURING TECHNOLOGY

Answer any seven questions. Note: Describe the near netshape manufacturing 1. (a) 5 and its applications. Also describe the methods of near netshape manufacturing. 5 Describe the LIGA micro-fabrication process (b) with a neat sketch. With the help of a neat diagram describe the 2. 10 foundation model of concurrent engineering. Also explain the guidelines for implementation of concurrent engineering projects. 3. What are the building blocks of QFD? 5 (a) Explain. (b) Explain the principles of design for 5 production. How is design for manufacture and design for Assembly different from

design for production engineering?

4.	(a)	Explain ACES Injection Molding process and its advantages and disadvantages.	5	
	(b)	Describe some of the benefits of using reverse engineering.	5	
5.	_	clain the working of solid Ground Curing anique with a neat sketch.	10	
6.	Discuss the various indirect methods for rapid tool production.			
7.	(a)	Compare the information flow in a conventional and e-manufacturing setup.	5	
	(b)	Describe important web portals that can be use'd for e-manufacturing environment.	5	
8.	Describe the e-manufacturing architecture with the help of a neat sketch.			
9.	Write short notes on any two of the following:			
	(a)	Kano's model	5	
	(b)	Software rapid prototype	5	
	(c)	Condition index mapping	5	