			Reg	g. No.											
		Question Paper Code12295													
B.E. / B.Tech - DEGREE EXAMINATIONS, NOV / DEC 2023															
		Sixth	Sem	ester											
		Mechanical	-	-	0										
20MEEL706 - COMPUTER INTEGRATED MANUFACTURING SYSTEMS															
(Regulations 2020)											1.	20			
Duration: 3 Hours Max. Ma								lark	s: 10	00					
PART - A (10 × 2 = 20 Marks) Answer ALL Questions															
1.	Specify the comp	oonents of a manufact	-									Mai K -Leve 2,K2,	el, CO		
2.	Define Scaling.											2,K1,CO1			
3.	What are the important properties of Bezier curves?											2,K1,CO2			
4.	List the main elements of NC Machine tools.										2,K1,CO2				
5.	Define group technology.										2,K1,CO3				
6.	Distinguish the steps involved in production flow analysis.											2,K1,CO3			
7.	List the components of FMS.									2,K1,CO4					
8.	List out the benefits of Computer Aided Process Planning.										2,K1,CO4				
9.	What are the major components of a common PLC?									2,K2,CO5					
10.	Define additive manufacturing.										2,K1,CO5				
PART - B $(5 \times 16 = 80 \text{ Marks})$															
		Answer any		-								(V)	<i>CO</i> 1		
11.	Briefly explain the manufacturing support systems.								16,K2,CO1						
12.								ent.		16,K2,CO1 16,K2,CO2					
13.	(a) CNC turning	on the following centers (b) CNC M			rs										
14.	C										16,K2,CO2 16,K2,CO3				
15.	a part programm	e.			eycl	e 1s u	iseti	ul 11	n wr	ıtıng	,				
16.	Explain retrieval and generative CAPP systems.									16,K2,CO4					
17.	Explain in details about FMS workstations. Discuss in detail about Robot control systems.									16,K2,CO4 16,K2,CO5					
18.	Discuss in detail	about Kobot control s	syste	ms.							1	υ, Λ2,	05		