	Reg. No.				
	Question Paper Code 21328				
M.E. /M.Tech DEGREE EXAMINATIONS. NOV/DEC 2022					
First Semester					
M.E CAD/CAM					
20PCDPC102 - COMPUTER AIDED TOOLS FOR MANUFACTURING					
(Regulations 2020)					
D	uration: 3 Hours Max. Marks:	100			
	PART - A $(10 \times 2 = 20 \text{ Marks})$				
	Allswei ALL Questions	Marks,			
1	What are the manufacturing metrics?	K-Level,CO 2,K1,CO1			
1.	List the solient features of CAD/CAM	2,K1,CO1			
2.	Distinguish some commercial variant and generative CAPP software	2,K2,CO2			
5.	systems.				
4.	Compare the types of CAM-I and CMPP.	2,K1,CO2			
5.	Identify an important element of Engineering Tolerances	2,K1,CO3			
6.	Assess any four benefits implementation of non-contact inspection.				
7.	List the components of REVERSE ENGINEERING				
8.	Explain Developing Technical data	2,K2,CO4			
9.	9. Generalize the need for RE assembly programs				
10.	Summarize the commonly used data management systems	2,K1,CO5			
	PART - B (5 × 13 = 65 Marks)				
	Answer ALL Questions				
11.	a) (i) Analyze various implementation issues on NC, CNC and DNC	13,K3,CO1			
	(ii) Explain with various applications of languages, G code and M code				
	OR				
	b) Narrate Manufacturing Processes: Removing, Forming, Deforming and joining.	13,K5,CO1			
12.	a) List the two approaches commonly used in CAPP systems bringing out their advantages and limitations.	13.K1,CO2			
	(b) Eveness shout production planning process in disperts next	13.K2.CO2			
	manufacturing.				

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create 21328

13.	a)	Summarize CAI methodology used in manufacturing.	13,K2,CO3
	b)	Name the various tolerance accumulation and surface quality.	13,K2,CO3
14.	a)	Assess different types of CMM software along with their application.	13,K2,CO4
	b)	Summarize With suitable sketches, explain the various digitizing techniques prevalent today.	13,K2,CO4
15.	a)	Demonstrate short notes on RE user interface.	13,K2,CO5
	b)	Identify and Draw the neat sketch of components of Recycling software and explain briefly.	13,K2,CO5

PART - C (1 × 15 = 15 Marks)

16. a) Elaborate CMM and its feature capturing -surface and solid modeling ^{15,K3,CO4} systems.

OR

b) Elaborate CAM-I, D-CLASS CMPP and Criteria in selecting a CAPP 15,K3,CO2 System.

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