SNS COLLEGE OF TECHNOLOGY
(An Autonomous Institution)
Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai
Accredited by NAAC-UGC with 'A++' Grade (Cycle III) &
Accredited by NBA (B.E - CSE, EEE, ECE, Mech & B.Tech.IT)
COIMBATORE-641 035, TAMIL NADU

Reg. No:

A

B.E/B.Tech- Internal Assessment – I
Academic Year 2024-2025 (Even Semester)
Sixth Semester
Department of Mechatronics Engineering
19MCE306 – Computer Integrated Manufacturing

Time: 1¹ᐟ² Hours   **Maximum Marks: 50**

Answer All Questions

Part A (5x2 = 10 Marks)

		CO	Blooms
1.	Recall the components of CIM	CO1	**UND**
2.	List the steps involved in designing and manufacturing a product	CO1	**REM**
3.	Infer the capabilities of computer control	CO1	**APP**
4.	Analyze the levels of automation in CNC industry	CO2	**APP**
5.	Justify the goals of automation in steel manufacturing industry	CO2	**APP**

PART – B (2*13=26 Marks) & (1*14=14 Marks)

			CO	Blooms
6.	(a)	Extend about manufacturing planning and manufacturing control in industries	13	CO1	**UND**
		(OR)			
	(b)	Inference about the computerized elements of CIM system	13	CO1	**REM**
7.	(a)	Analyze how computer aided process planning reduces manual intervention	13	CO2	**ANA**
		(OR)			
	(b)	Elaborate how Aggregate production planning and master production schedule ensures smooth manufacturing process	13	CO2	**ANA**
8.	(a)	Appraise concurrent engineering in car manufacturing industry	14	CO1	**APP**
		(OR)			
	(b)	Illustrate material requirement planning in smart phone manufacturing industry	14	CO2	**APP**

Bloom's Taxonomy: REM – Remember   **UND** – Understand   **APP**– Apply   **ANA**– Analyze **EVA –** Evaluate **CRT –** Create

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Time: 1¹ᐟ² Hours **Maximum Marks: 50**

Answer All Questions

Part – A (5 x 2 = 10 Marks)

		CO	Blooms
1.	Tell about manufacturing automation protocol	CO1	**REM**
2.	Define computer aided process planning	CO1	**REM**
3.	Outline material requirement planning	CO1	**REM**
4.	Infer the results of Process planning in project management	CO2	**ANA**
5.	List the important applications of CIM in manufacturing planning	CO2	**UND**

PART – B (2*13=26 Marks) & (1*14=14 Marks)

			CO	Blooms
6. (a)	Summarize the types of production in cookies manufacturing	13	CO1	**APP**
	(OR)			
(b)	Outline the basic elements of an automated system with a block diagram	13	CO1	**REM**
7. (a)	Illustrate why time management plays a vital role in material requirement planning	13	CO2	**ANA**
	(OR)			
(b)	Propose the logical steps in computer aided process planning	13	CO2	**UND**
8. (a)	Discuss lean production and Just -In Time production in Toyota	14	CO1	**APP**
	(OR)			
(b)	Elaborate how Aggregate production planning and master production scheduled in soap manufacturing industry	14	CO2	**APP**

Bloom's Taxonomy: REM – Remember **UND** – Understand **APP**– Apply **ANA** Analyze **EVA –** Evaluate **CRT -** Create