SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech II Year II Semester Regular & Supplementary Examinations August-2023

CAD/CAM
(Mechanical Engineerng)

Time: 3 Hours   **Max. Marks: 60**

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

1	a	Explain the product cycle and CAD/CAM product cycle.	CO1	L1	6M
	b	List the Evaluation criteria CAD standards.	CO1	L2	6M

OR

2	a	Explain about homogeneous transformations.	CO1	L2	6M
	b	Write short notes on Rotation about a Fixed Point, Reflections and Shears.	CO1	L1	6M

3		Discuss various types of geometric m........ : sketches.	C02	L6	12M

OR

4	a	Explain about boundary representation approach.	C02	L2	6M
	b	What are the Fundamentals of solid modelling.	C02	L1	6M

UNIT-III

5	a	List out and Explain about basic components of an NC system and CNC system.	CO4	L1	6M
	b	Explain in detail about motion statement.	CO3	L2	6M

OR

6	a	Illuminate the procedure adopted in NC systems.	CO3	L2	6M
	b	Classify various types of Numerical Control systems and explain them.	CO3	L2	6M

UNIT-IV

7	a	List the benefits of Group Technology.	CO5	L2	6M
	b	Write short notes on Part families.	CO5	L1	6M

OR

8	a	Discuss the terminology used in quality control.	CO5	L2	6M
	b	Define the term CAQC and explain how it is implemented in production systems.	CO5	L2	6M

UNIT-V

9	a	Brief about the shop floor control	CO6	L1	6M
	b	Explain the function of shop floor control	CO6	L2	6M

OR

10		Explain the function of shop floor control.	CO6	L2	12M

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