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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)**B.Tech III Year I Semester Supplementary Examinations July-2022****CAD/CAM**

(Mechanical Engineering)

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

- 1 a Explain the CAD Tools. L2 6M  
 b Discuss clearly the functions of a graphics package. L6 6M

**OR**

- 2 a Briefly explain the term scaling, translation and rotation used in Graphics. L2 6M  
 b Illustrate detail about 2D and 3D transformations. L2 6M

**UNIT-II**

- 3 a Discuss clearly the Constructive Solid Geometry (CSG) method to create models. L2 6M  
 b Describe briefly Parametric and non-Parametric representations. L2 6M

**OR**

- 4 a Explain B-spline surface in detail. L1 6M  
 b Write a short note on analytic representations. L4 6M

**UNIT-III**

- 5 a Write a short note on motion statement. L5 6M  
 b Briefly explain about NC Coordinate systems. L2 6M

**OR**

- 6 a Describe the Computer Assisted Part Programming with example. L5 6M  
 b Write a short note on Manual part programming. L2 6M

**UNIT-IV**

- 7 a Determine briefly about production flow analysis (PFA). L2 6M  
 b Discuss optical non-contact inspection methods. L2 6M

**OR**

- 8 a Write Short notes on manufacturing system. L2 6M  
 b Determine the components of FMS. L2 6M

**UNIT-V**

- 9 a Illustrate the Generative CAPP type system with neat sketch. L2 6M  
 b Discuss briefly about MRP-I. L5 6M

**OR**

- 10 a Explain about Machinability data systems. L2 6M  
 b State and explain briefly about computer integrated production planning. L2 6M

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