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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)**B.Tech III Year II Semester Supplementary Examinations February-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 various types of display devices? **6M**  
b Briefly explain the term scaling and rotation used in Graphics **6M**

**OR**

- 2 a Explain briefly about the elements of a CAD system. **6M**  
b Write short notes on Co-ordinate systems **6M**

**UNIT-II**

- 3 Explain the Constructive Solid Geometry (CSG) method to create models. **12M**

**OR**

- 4 Describe briefly the following methods of surface modeling with a few application examples: (i) B-spline surface. (ii) Bezier surface. **12M**

**UNIT-III**

- 5 a List out and Explain about basic components of an NC system and CNC system. **6M**  
b Differentiate Manual part programming and Computer assisted part programming. **6M**

**OR**

- 6 a Explain about various NC words used in part programming. **8M**  
b Explain detail about geometry statement. **4M**

**UNIT-IV**

- 7 Explain the non-contact inspection methods-optical non-contact inspection methods-non-optical Computer aided testing. **12M**

**OR**

- 8 a Explain detail about material handling systems. **6M**  
b Write the advantage of material handling system. **6M**

**UNIT-V**

- 9 What is CAPP? Explain the any one type of CAPP with neat sketches. **12M**

**OR**

- 10 a Brief about the shop floor control. **6M**  
b Explain the function of shop floor control. **6M**

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