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

B.Tech III Year II Semester Regular & Supplementary Examinations October-2020
CAD/CAM

(Mechanical Engineering)

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 a Draw the CAD/CAM product cycle with a neat sketch. 6M
b Discuss briefly about the 2D and 3D transformations. 6M

OR

- 2 a Explain briefly about the elements of a CAD system. 6M
b Explain the various types of display devices? 6M

UNIT-II

- 3 a Define the solid modeling and explain any one type of solid modeling. 6M
b Write short notes on synthetic representations. 6M

OR

- 4 Discuss various types of geometric modeling with neat sketches. 12M

UNIT-III

- 5 a Briefly explain about NC Coordinate systems. 6M
b Explain various applications of NC and CNC systems. 6M

OR

- 6 a Differentiate manual part programming and computer assisted part programming. 6M
b Write a short note on types of numerical control. 6M

UNIT-IV

- 7 a Explain in detail about material handling systems. 6M
b Write a short note on manufacturing system. 6M

OR

- 8 a Write the advantages of material handling systems. 6M
b Explain briefly optical non-contact inspection methods. 6M

UNIT-V

- 9 Explain the retrieval type system with neat sketch and explain the benefits of CAPP? 10M

OR

- 10 a Differentiate MRP-I and MRP-II. 6M
b Explain the functions of shop floor control. 6M

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