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

B.Tech III Year II Semester Regular Examinations May 2019

CAD/CAM

(Mechanical Engineering)

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1** **a** Draw and explain the CAD/CAM product cycle. 8 M
 b Explain 2D transformation. 4 M

OR

- 2** Explain in detail about data base management systems. 12 M

UNIT-II

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

OR

- 4** Explain about Parametric and non-Parametric representations. 12 M

UNIT-III

- 5** Explain about basic components of an NC system and CNC system. 12 M

OR

- 6** **a** Differentiate Manual part programming and Computer assisted part programming. 6 M
 b What are the advantages and disadvantages of Numerical control? 6 M

UNIT-IV

- 7** Explain FMS. And explain about material handling systems with neat sketch. 12 M

OR

- 8** Define quality inspection and explain optical non-contact inspection methods. 12 M

UNIT-V

- 9** Explain the Retrieval type system with neat sketch and explain the Benefits of CAPP? 12 M

OR

- 10** Explain briefly MRP-II With neat sketch and explain CIM Benefits. 12 M

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