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

B.Tech III Year II Semester Supplementary Examinations March-2021

CAD/CAM

(Mechanical Engineering)

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 a With neat sketch explain the main elements of CIM system. 6M
b Write short notes on Coordinate systems. 6M

OR

- 2 a List the evaluation criteria while incorporating the CAD standards. 6M
b Discuss clearly the functions of a graphics package. 6M

UNIT-II

- 3 a Explain in detail about analytic representations. 6M
b Compare 2-D and 3-D wire frame models. 6M

OR

- 4 a List and explain about basic components of an NC and CNC system. 6M
b Explain in detail about motion statements in CNC programming. 6M

UNIT-III

- 5 Explain briefly about Computer Assisted Part Programming with example. 12M

OR

- 6 a Explain detail about geometry statement. 6M
b What are the advantages and disadvantages of Numerical control? 6M

UNIT-IV

- 7 a Explain FMS and explain about material handling systems with neat sketch. 6M
b Explain Production Flow Analysis and benefits of Group Technology. 6M

OR

- 8 a What are the types of manufacturing system and explain any one? 6M
b Explain at least one contact inspection method. 6M

UNIT-V

- 9 a What is CAPP? Explain the any one type of CAPP with neat sketches. 6M
b Write a short note on MRP-II with their advantages and disadvantages. 6M

OR

- 10 a Write short notes on Lean Manufacturing. 6M
b Discuss in brief about inventory control system. 6M

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