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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B.Tech III Year I Semester Regular Examinations December-2021

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 product cycle and CAD/CAM product cycle. L2 6M
b Identify and List the Evaluation criteria CAD standards. L1 6M

OR

- 2 a Describe the Utilization in a Industrial Environment of CAD. L3 6M
b Briefly explain about homogeneous transformations. L1 6M

UNIT-II

- 3 a Discuss various types of geometric modeling with neat sketches. L6 6M
b Illustrate the surface modeling and their representation. L5 6M

OR

- 4 a Describe about boundary representation approach. L2 6M
b Compare 2-D and 3-D wire frame models. L2 6M

UNIT-III

- 5 a List out and explain about basic components of an NC system and CNC System. L2 6M
b Differentiate Manual part programming and Computer assisted part Programming. L2 6M

OR

- 6 a With neat sketch and describe the canned cycles. L2 6M
b State and draw a neat sketch of the cutter radius compensation. L2 6M

UNIT-IV

- 7 a Define Part families and Write Short notes on Part families. L2 6M
b What is mean by Machine cell design? Explain it. L3 6M

OR

- 8 a State and explain briefly about terminology in quality control. L2 6M
b Write brief notes on Group Technology and Parts classification. L1 6M

UNIT-V

- 9 a Enumerate the Retrieval type system with neat sketch. L2 6M
b Discuss briefly about Capacity planning. L5 6M

OR

- 10 a Write short notes on function of shop floor control. L2 6M
b Write Short notes on MRP-II and its advantage & disadvantage. L2 6M

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