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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY::PUTTUR
(AUTONOMOUS)
M.Tech I year II Semester Regular Examinations June 2019
COMPUTER GRAPHICS
(CAD/CAM)**

Time: 3 hours

Max. Marks:60

(Answer all Five Units 5×12=60 Marks)

UNIT I

- 1 a Discuss the properties of a line. 6M
- b List and Explain the application of computer graphics. 6M

OR

- 2 a Write briefly about the DDA. 6M
- b Discuss about liquid crystal display. 6M

UNIT II

- 3 Explain in detail about the desirable characteristics of line clipping algorithms. 12M

OR

- 4 Write about polygon filling algorithm. 12M

UNIT III

- 5 What is 3D clipping? Give the advantages of clipping an object against the unit cube. 12M

OR

- 6 The pyramid defined by the coordinates A(0,0,0),B(1,0,0),C(0,1,0)and D(0,0,1) is rotated 45 degrees about the line L. That has the direction $V=J+K$ and passing through the point C(0,1,0) find the coordinates of rotated pyramid. 12M

UNIT IV

- 7 Explain the steps involved in depth duffer algorithm. 12M

OR

- 8 Write about the hidden line removal algorithm. 12M

UNIT V

- 9 List and explain the application of shading algorithm. 12M

OR

- 10 Discuss the properties of shading. 12M

*****END*****