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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
MCA II Year II Semester Supplementary Examinations Dec 2019
COMPUTER GRAPHICS

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 a What are DDA and Explain DDA Line Drawing Algorithm? 6M
b Explain Bresenhams Line Drawing Algorithm. 6M

OR

- 2 a Explain midpoint Ellipse generating Algorithm. 6M
b Describe output Primitives Briefly. 6M

UNIT-II

- 3 a What is Geometric Transformation? And Explain its Examples. 6M
b Describe general Fixed-point scaling and its methods. 6M

OR

- 4 a Explain 3D Translation and scaling. 6M
b Write about modeling and Co-ordinate Transformation. 6M

UNIT-III

- 5 a Explain Viewing pipeline with neat sketch. 6M
b Explain Sutherland-Hodgeman polygon Clipping. 6M

OR

- 6 a Explain cubic S-pine Interpolation. 6M
b Write Short note on a) Ellipsoid b) Blobby Objects c) Octree 6M

UNIT-IV

- 7 a Describe in General Depth Buffer method. 6M
b What is Back face detection and its Example 6M

OR

- 8 a Explain the Depth sorting method in detail. 6M
b Explain Curved Surfaces in detail. 6M

UNIT-V

- 9 a What is Morphing? Explain it briefly. 6M
b Explain the motion Specifications. 6M

OR

- 10 a Describe Kinematics and Dynamics. 6M
b Explain in General Computer Animation Functions. 6M

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