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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR  
(AUTONOMOUS)MCA II Year II Semester Supplementary Examinations October-2020  
COMPUTER GRAPHICS

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

- 1 a Explain the Raster Scan Systems. 6M  
b Describe in detailed about Pixel Addressing. 6M

**OR**

- 2 a What is Flat-Panel Displays? Explain Graphics Monitors. 6M  
b Describe output Primitives briefly. 6M

**UNIT-II**

- 3 a Describe in General Pivot-point rotation? 6M  
b Explain Reflection and Shear? With Example. 6M

**OR**

- 4 a Describe Rotations with Quaternion's 6M  
b Explain Raster Methods for Transformation. 6M

**UNIT-III**

- 5 a Explain Viewing Co-ordinate Reference Frame. 6M  
b Explain Cohen-Sutherland Line Clipping in detail 6M

**OR**

- 6 a Describe 2D viewing functions and its Projections. 6M  
b Explain Cubic Spline Interpolation with neat sketch. 6M

**UNIT-IV**

- 7 a Explain the benefits of wireframe method? 6M  
b Explain Classification of Visible- surface detection Algorithms. 6M

**OR**

- 8 a Explain the importance of Depth Buffer method. 6M  
b Explain the depth-Sorting method in detail. 6M

**UNIT-V**

- 9 a Explain in detail about Simulating Acceleration. 6M  
b Describe Goal Directed systems. 6M

**OR**

- 10 a Describe Raster Animations with neat sketch. 6M  
b Explain Key-Frame Systems with Example. 6M

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