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Roll No..............

B. Tech.

SIXTH SEMESTER

MID TERM EXAMINATION

March- 2019

MC318   COMPUTER GRAPHICS

Time: 01:30 Hours

Max. Marks: 30

Note: Answer all questions.

Q1.   Differentiate between the following   (6)
   a. Raster scan devices and Random scan devices.
   b. Flood fill and Boundary fill algorithm

Q2.   Define the following terms   (6)
   a. Silvers
   b. Persistence
   c. RGB color model
   d. Affine transformation

Q3.   Answer the following questions with respect to Cohen Sutherland Line
      clipping algorithm   (5)
   a. How are bit codes assigned to the regions?
   b. Describe the three cases for line clipping?
   c. Explain how the intersection points are calculated for the lines which
      are candidates for line clipping?

Q4.   Derive the decision parameter for mid point circle drawing algorithm.
      The centre of the circle is at (0,0) and the radius is 'r'.   (4)

Q5.   Define the matrices for the following transformations   (4)
   a. Reflection along the line 3X+2y+4=0
   b. a scaling matrix w.r.t. a fixed point, P(h,k).

Q6.   What do you mean by aliasing? List any two techniques to remove this
      effect.   (3)

Q7.   Consider a Square (0,0) (0,2) (2,0) (0,2). Calculate the area of the
      square obtained after reflecting it through y axis.   (2)

`END