

Code No: 57049

R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, February/March -2016

COMPUTER GRAPHICS

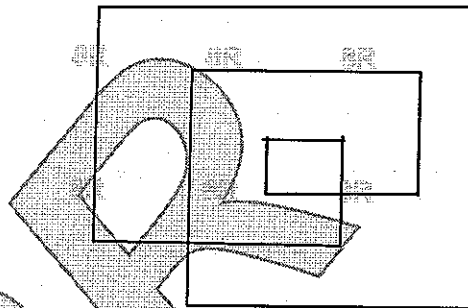
(Computer Science and Engineering)

Time: 3 Hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

- 1.a) Explain about the DVST with neat sketch.
b) Distinguish between Raster-scan and Random-scan Systems. [7+8]
- 2.a) Explain about Bresenham's midpoint Circle Generation Algorithm.
b) Find the Interior region for the figure below, by Even-Odd and Winding Number Methods. [7+8]



- 3.a) Obtain the transformation matrix for image transformations.
b) Distinguish among world, normal and screen coordinates with suitable examples. [7+8]
4. Explain about Cohen-Sutherland line clipping algorithm with a suitable example. [15]
- 5.a) Distinguish between Bezier and B-spline surfaces.
b) Explain about flat shading model. [8+7]
6. Obtain the transformation matrix for rotation about an arbitrary axis. [15]
- 7.a) Explain about the classification of Visible Surface Detection Methods.
b) Explain about depth-buffer method with a neat block diagram. [8+7]
- 8.a) Explain about Raster animation.
b) Explain about Computer animation Languages. [7+8]

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