

Code No: 09A70504

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, June/July - 2014

COMPUTER GRAPHICS

(Computer Science and Engineering)

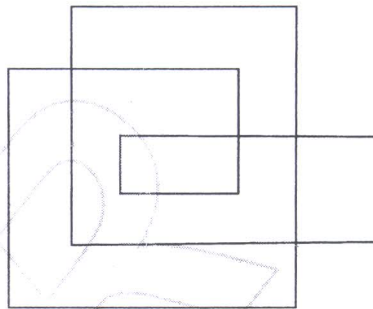
Time: 3 Hours

Max. Marks: 75

Answer any Five Questions  
All Questions Carry Equal Marks

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1. Enumerate and Explain about various input devices used in Computer Graphics with neat block diagrams.
- 2.a) Explain about Bresenham's Line Generation Algorithm.  
b) Find the Interior region for the figure below, by Even-Odd and Winding Number Methods.



- 3.a) Obtain the transformation matrix for rotation about an arbitrary point.  
b) What are Homogeneous Coordinates? Explain.
4. Explain about Cyrus-beck line clipping algorithm with a suitable example.
- 5.a) Distinguish between Bezier and B-spline curves.  
b) Explain about Gouraud Shading method.
- 6.a) Explain about 3D reflection and shear transformations with suitable examples.  
b) Explain about Parallel Projection Transformations with a neat block diagram.
- 7.a) Distinguish between Object-space and Image-space Visible Surface Detection Methods.  
b) Explain about Painter's algorithm with a neat block diagram.
8. Explain in detail about Design of Animation Sequence.

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