

Paper Code: 3608
Time: 02:30 Hours

Paper Title: Computer Graphics ---

Marks: 70

- Q1 Answer any FIVE from the following: [10]
- Differentiate Raster Scan display and Random scan display with example.
 - Explain curve attribute with proper example.
 - Define term : Scaling & Rotation.
 - Write concept of Polygon Clipping.
 - Write the functionality of Trackball and Space ball devices.
 - Describe concept of Window and View port.
 - What do you mean by Reflection Transformation?
- Q2 Answer any FIVE from the following: [15]
- What is Pixel ? Write short note on Graphic Coordinate System with proper example.
 - Explain Mid Point Circle drawing algorithm with example.
 - Explain the concept of Parallel Projection.
 - Write short note on Graphic standards and library.
 - Explain Flood fill in details with suitable example.
 - Write short note on 3D Transformation.
 - List out different advantages of Computer Graphics.
- Q3 Answer any FIVE from the following: [25]
- Explain application and Classification of Computer Graphics.
 - Write short note on Line Attribute and Area fill attribute with suitable example.
 - Write code to implement following 2D transformations: (write functions only)
- Translation and Rotation about fixed point.
 - Write short note on Input devices : Joystick & Image Scanner.
 - Explain Text Clipping in details.
 - Write short note on DDA Line drawing algorithm.
 - Describe any five functions of graphics library.
- Q4 Answer any TWO from the following: [20]
- Explain mechanism of Color CRT and Flat Panel video output devices.
 - Write detail short note on 3D Viewing and its different methods along with examples.
 - Explain formula for window to viewport translation and point clipping operation with suitable program.