

Exam. Code : 107206

Subject Code : 2094

BCA Semester—VI  
COMPUTER GRAPHICS

## Paper—I

Time Allowed—3 Hours]

[Maximum Marks—75

**Note :—** Attempt any FIVE questions.

1. Define Computer Graphics. Elaborate on major application areas of Computer graphics. 3,12
2. Explain the working of the following monitors : CRT Monitors, LED monitors, LCD monitors. 5,5,5
3. What is transformation ? Describe the matrix formulation of 2D Translation, Scaling and Rotation. 15
4. Differentiate between windowing and clipping. Demonstrate Cohen Sutherland line clipping method with example. 15
5. Differentiate between window port and viewport. Demonstrate Window-to-viewport transformations. 15
6. Write a C program to draw an arc of a circle. Test your program with two different data sets. 15
7. Differentiate between parallel projection and perspective projection. How are projections supported in a graphic package ? Explain with reference to any graphics software package that you have worked on. 15
8. Explain the features provided by a graphics software package. 15