

Exam. Code : 105706

Subject Code : 1577

B.Sc. Information Technology Semester-VI

COMPUTER GRAPHICS

Paper-I

Time Allowed—3 Hours]

[Maximum Marks—75

Note : There are total **EIGHT** questions, attempt any **five**.
All questions carry equal marks.

1. Explain various applications of computer graphics.
2. Write and explain any ellipse drawing algorithm.
3. What is difference between LCD and LED ? Explain the working of CRT.
4. Explain various simple and composite 3D transformations. Give examples.
5. What is hidden surface ? What is meaning of visible surface detection ? Explain Z-buffer algorithm.
6. Explain various parallel and perspective projections.
7. Explain the following terms :
 - (a) Refresh Rate
 - (b) Dot Pitch
 - (c) Boundary Fill and Flood Fill.
 - (d) Pixel Phasing
 - (e) Shearing.
8. Explain the following :
 - (a) Line Clipping
 - (b) Raster Scan Vs. Random Scan.