

Exam. Code : 105706
Subject Code : 1611

B.Sc. (Information Technology) 6th Semester
COMPUTER GRAPHICS
Paper-I & II

Option-I : Paper-I

Time Allowed—3 Hours] [Maximum Marks—75

Note :—Attempt any FIVE questions.

1. Define Computer Graphics. Discuss the hardware and software requirements for running graphics applications. 3,12
2. Explain the difference between working of the different types of monitors that use the following technologies-CRT and LED. 15
3. Write down the matrices using homogeneous coordinates for different types of transformations on a 3D plane. 15
4. Explain Cohen Sutherland's line clipping algorithm with the help of an example. 15
5. How is a hidden surface in a graphics image detected? 15
6. What is the purpose of taking projections ? Discuss the different types of projection applicable in computer graphics. 15
7. Write short notes on : coordinate system, line drawing algorithms. 15
8. Explain the Bresenham's circle drawing algorithm with the help of an example. 15