

B.Sc. Information Technology 6th Semester

COMPUTER GRAPHICS

Paper—I & II, Opt. (i)

Time Allowed—3 Hours] [Maximum Marks—75

Note :— There are **EIGHT** questions, attempt any **FIVE**.

Each question carries **15** marks.

1. Which are various applications of computer graphics ?
2. (a) What is difference between raster scan and random scan ?
(b) Explain the differences between CRT and LCD.
3. Which are various circle drawing algorithms ? Write and explain Bresenham's circle drawing method.
4. What is meant by line clipping ? Which are various line clipping algorithms ? Explain Cohen Sutherland algorithm.
5. Which are various 2D transformations ? Explain composite 2D transformations.

6. What is hidden surface ? What is meant by visible surface detection ? Explain Z-buffer algorithm.
7. What is scan line algorithm ?
8. What is projection ? Explain various parallel projections. How parallel projections differ from perspective projections ?

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