

Exam. Code: 107206

Subject Code: 1644

**Bachelor of Computer Application (BCA) 6th Semester
COMPUTER GRAPHICS**

Paper-I

Time Allowed—3 Hours]

[Maximum Marks—75

Note :- Attempt **FIVE** questions in all, selecting at least **ONE** question from each Section. The **fifth** question may be attempted from any Section. All questions carry equal marks.

SECTION—A

1. What is Computer Graphics ? Which are its applications in Education, Medicine and Entertainment Industry ?
2. Explain the working and differences between CRT, LCD and LED monitors.

SECTION—B

3. Write Bresenham's line algorithm. How does it differ from DDA algorithm ?
4. Explain any three types of transformations. Also write their matrix representation.

SECTION—C

5. What is difference between windowing and Clipping ? Explain Cohen Sutherland line clipping algorithm.
6. What are composite transformations ? Why are they called so ? Explain any two composite transformation along with their matrix representation.

SECTION—D

7. Explain the differences between parallel and Perspective projections.
8. What is 3D coordinate system ? Explain 3d Transformations.