Unit II

- **4.** What steps are required to plot a line whose slope is between 45° and 90° using Bresenham's method? **16**
- 5. Write steps to scan-convert a sector (1/4 part of circle) using the trigonometric method.

Unit III

- 6. (a) Differentiate between windows and Viewport with suitable example:
 - (b) Explain the pro-point subdivision line clipping method.
- 7. Explain Cohn-Sutherland and Sutherland-Hodgeman Algorithms in detail.

Unit IV

- 8. (a) Differentiate between 2D and 3D graphics in detail with suitable examples.8
 - (b) Explain the BSP tree in detail. 8
- 9. What do you understand by projection? Explain its types with suitable diagrams.

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COMPUTER GRAPHICS

Paper: CSDE-21

Time : Three Hours] [Maximum Marks : 80

Note: Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory.

- 1. Write short notes on the following:
 - (i) Interlacing
 - (ii) Plasma Panel Display
 - (iii) Lookup Table
 - (iv) Tweening
 - (v) Line Clipping

Unit I

- 2. Discuss the relative advantage of interactive and passive graphics. What are the applications of computer graphics?

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- 3. What are Color CRTs? How are colors focused in colored CRT? Is the refreshing being necessary in CRT? Explain.

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