



NP – 417

**V Semester B.C.A. Examination, January/February 2025
(NEP)**

(Freshers/Repeaters)

CA – E1 (Elective 1) : COMPUTER GRAPHICS

Time : 2½ Hours

Max. Marks : 60

Instruction : Answer any four questions from each Section.

SECTION – A

I. Answer any four questions. Each question carries 2 marks. (4×2=8)

- 1) Give the various applications of computer graphics.
- 2) What is meant by refreshing of the screen ?
- 3) Define scaling and how the object is doubled its size.
- 4) What is window and view port ?
- 5) What do you mean by segment files ?
- 6) How do you convert a gravity field to a line ?

SECTION – B

II. Answer any four questions. Each question carries 5 marks. (4×5=20)

- 7) Compare raster scan display and random scan display techniques.
- 8) Explain circle drawing algorithm.
- 9) Describe two-dimensional translation with an example.
- 10) Define clipping and explain text clipping.
- 11) How are polygon surfaces stored in polygon table ?
- 12) Write short note on Tablet.

P.T.O.



SECTION – C

III. Answer **any four** questions. **Each** question carries **8** marks. **(4×8=32)**

- 13) Explain cathode ray tube monitor with a suitable diagram.
 - 14) Explain DDA line drawing algorithm and demonstrate the line generation with coordinate points (20, 10) and (30, 18).
 - 15) Explain two-dimensional rotation and shear in detail.
 - 16) Explain Cohen-Sutherland line clipping algorithm.
 - 17) Explain Parallel projection and Perspective projection.
 - 18) Write short notes on :
 - a) Keyboard
 - b) Touch panel.
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