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INTERACTIVE COMPUTER GRAPHICS Paper-CSE-404

Time allowed: 3 hours] [Maximum man	\mathbf{c}		100
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Note: Attempt five questions in all, selecting at least one question from each unit. All questions carry equal marks.

Unit-1

- 1. (a) What do you mean by display processors? Explain the concepts of character generator?
 - (b) Compare and contrast the working of raster scan and random scan display systems.
- 2. Discuss the functioning of monochrome and color display techniques?

Unit-2

- 3. (a) Explain the DDA line drawing algorithm. What are the advantages and disadvantages of DDA algorithm. Implement the DDA algorithm to draw a line from (0,0) to (6,6).
 - (b) What do you mean by 2-D transformation? Explain translation, shearing and rotation in 2-D transformation.
- 4. (a) Explain midpoint circle drawing algorithm, plot a circle by using midpoint algorithm whose radius is 10 units.
 - (b) Explain screen co-ordinates and user co-ordinates. 10

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Unit-3

- 5. (a) Write short note on mouse programming and interactive graphical techniques.
 - (b) Explain zooming and clipping positioning techniques. 10
- 6. Explain different pointing and positioning devices. 20

Unit-4

- 7. Discuss 3-D transformations and explain different 3-D geometric transformations.
- 8. (a) Explain the concept of projection. What do you mean by parallel projection?
 - (b) Give brief description of hidden lines and surfaces.

 Discuss any one algorithm used for removal of hidden lines and surfaces.