Computer Graphics (IT-6, DEC-05)

Note: Attempt any five questions.

- 1. a) Explain the point plotting technique in detail.
 - b) What are the steps required to plot a line whose slope is between 0° and 45° using Bresenham's method?
- 2. a) Explain the characteristics of light pen.
 - b) Explain the refresh line drawing display.
- 3. a) State and explain a point clipping method.
 - b) State the Cohen-Sutherland line clipping algorithm.
- 4. a) Derive the general form of the matrix for rotation about a point P(h. k).
 - b) What are the applications of raster scan graphics?
- 5. a) State the characteristics of quadratic Bezier Curves. Also explain how they can be used to construct curved surfaces.
 - b) Why are the hidden surface removal algorithms needed?
- 6. Explain the scan line coherence algorithm in detail.
- 7. Explain the solid area scan conversion with example.
- 8. Write short notes on the following topics:
 - a) Device dependent Graphics System.
 - b) View planes.

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