Code: IUT 9A05503

IUT

## B. Tech II Year I Semester (R09) Supplementary Examinations, May 2013 **COMPUTER GRAPHICS**

(Electronics & Communication Engineering)

Time: 3 hours Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Explain the working of a plasma panel.
  - (b) Explain the design issues in color CRT monitors.
- 2 (a) Write short notes on:
  - (i) Polynomial method.
  - (ii) Trigonometric method for drawing a circle.
  - (b) Briefly explain the necessary modifications in DDA algorithm to draw thick lines.
- 3 (a) What is meant by composite transformations?
  - (b) If P(x, y, z) is an object reference point for scaling, explain how the scaling operation is defined in terms of scaling with respect to the origin.
- 4 (a) Write and explain functions for:
  - (i) Set local transformation.
  - (ii) SPH-compose matrix.
  - (b) Write the procedure for modeling the structure with three houses; explain the perspective view for the structure.
- Write short notes on the following:
  - (a) Hermite curves.
  - (b) Bezier curves.
- 6 Write short notes on:
  - (a) Three dimensional transformations.
  - (b) Sweep representations.
- Write notes on halftoning technique.
- 8 (a) Discuss about the properties of light.
  - (b) Classify the visible surface detection methods.

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