

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.
- 5 Write short notes on the following:
(a) Hermite curves.
(b) Bezier curves.
- 6 Write short notes on:
(a) Three dimensional transformations.
(b) Sweep representations.
- 7 Write notes on halftoning technique.
- 8 (a) Discuss about the properties of light.
(b) Classify the visible surface detection methods.
