

Code: 9A05503



B.Tech III Year II Semester (R09) Supplementary Examinations December/January 2015/2016 **COMPUTER GRAPHICS**

(Information Technology)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions All questions carry equal marks

- Define persistence of phosphorescence and persistence of vision. How they are related? 1 (a)
 - Differentiate between interactive and passive graphics. (b)
- What are Graphic primitives? Mention some typical graphic primitives that a package may provide. 2 (a)
 - What is inside test? Explain the two methods for finding out a pixel is inside the polygon or outside (b) the polygon.
- 3 Determine the form of the transformation matrix for a reflection about an arbitrary line with equation y = mx + c.
- Write the procedure for updating the screen in SPHIGS. 4 (a) ercom
 - (b) Write different modes of rendering.
- Derive the equation for polygon surface. 5 (a) (b) Compare Bezier curve and B-spline.
- What are regularized Boolean set operations? How they are different from normal Boolean set 6 operations? Explain in detail their significance.
- Write notes on the following: 7
 - Gamut. (a)
 - (b) Gamma of CRT.
- 8 Describe the following terms:
 - (a) Atmospheric attenuation.
 - Shadow masking method for colour monitor. (b)
 - Gouraud shading algorithm (c)
