

Code: 9A05503

B.Tech III Year II Semester (R09) Supplementary Examinations May/June 2017

COMPUTER GRAPHICS

(Information Technology)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 Write short notes on:
 - (a) Cathode – Ray tube.
 - (b) Vector scans display.
 - (c) Raster scans display.
- 2
 - (a) What is polygon? Explain different types of polygons.
 - (b) Write about test parameters and text primitives.
 - (c) What is a display file?
- 3 What is parallel projection? Derive a transformation matrix for parallel projection.
- 4
 - (a) Write the procedure for updating the screen in SPHIGS.
 - (b) Write different modes of rendering.
- 5
 - (a) What is a torus? Explain it briefly.
 - (b) Compare Bezier curve and B-spline.
- 6
 - (a) Write short notes on boundary representation of solid objects.
 - (b) Explain how octrees are used to model solid objects.
- 7 What is the role of color in computer graphics? Explain briefly different methods to generate color on graphics display devices.
- 8
 - (a) Compare and Contrast texture mapping with bump mapping.
 - (b) Explain flat shading model. What are its shortcomings?
