

www.FirstRanker.com

Code: 9F00404c

MCA IV Semester Regular & Supplementary Examinations May 2018 COMPUTER GRAPHICS

(For students admitted in 2011 (LC), 2012, 2013, 2014, 2015 & 2016 only)

Time: 3 hours

Max. Marks: 60

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Explain the application areas of computer graphics.
 - (b) Explain about the different input devices.
- 2 (a) Explain the Bresenham's line drawing algorithm.
 - (b) Explain about the boundary fill algorithms.
- 3 (a) Explain the basic transformations.
 - (b) Explain the matrix representations and homogeneous coordinates.
- 4 (a) Explain window-to-viewport coordinate transformation.(b) Explain Cohen-Sutherland line clipping.
- 5 (a) Explain about Hermite curves.
 - (b) Explain about Bezier surfaces and B-spline surfaces.
- 6 (a) Explain the following three-dimensional geometric transformations:
 (i) Reflections.
 (ii) Shears.
 - (b) Explain about viewport clipping.
- 7 (a) Explain depth-sorting method.
 - (b) Explain back-face detection.
- 8 (a) What are raster animations? Explain in the design of animation sequences.
 - (b) Explain motion specifications.
