

www.FirstRanker.com

Code No: MC1349/R13

MCA IV Semester Regular/ Supplementary Examinations, June-2016

COMPUTER GRAPHICS

Time: 3 Hours

Max. Marks: 60

Answer Any **FIVE** Questions All Questions Carry Equal Marks

1.	a		6
	b	Write short notes on graphics monitors and work stations.	6
2.	a	Explain and demonstrate with suitable examples "the even-odd method" of determining the polygon interior points.	6
	b	What are the merits and demerits of flood-fill and scan-line algorithms?	6
3.	a	Write the general form of the matrix for rotation about a point P(h, k).	6
	b	Show that 2-D scales and rotations do not commute in general.	6
4.		Explain the Cohen-Sutherland algorithm for finding the category of a line segment. Show clearly how each category is handled by the algorithm.	12
5.	a	Explain the perspective projection for projecting 3D objects on a 2D view surface.	6
	b	Describe 3D clipping.	6
6.	a	Explain the Phong shading model for rendering of polygon surfaces.	6
	b	What are B-spline curves? Explain, briefly, mentioning a few of their properties.	6
7.	a	Explain the Z-Buffer method of Hidden Surface removal.	6
	b	Write about 3D viewing transformations.	6
8.	a	List and explain about the steps of animation.	8
	b	Describe raster animation.	4
		le la	

FirstRnker.com

www.FirstRanker.com