CS 4 SEM COMPUTER GRAPHICS JUN 2016

		Q. P.	Code: 541801 (3 hours) [80 Marks]		
www.a2zsubjects.com	N.B.:		(3 hours) [80 Marks]		
	1.		tion No.1 is compulsory.		
	2.	Atter	npt any Three questions out of remaining Five questions.	V	
	3.	Figur	Figures to the right indicate full marks.		
	4.	Assu	me any suitable data wherever required but justify the same.	W.	
	Q.1	a)	Prove that two successive rotations are additive.	12z	
		b)	Explain the various applications of computer graphics	5 Su	
	<u>.</u> 6	c)	Explain dithering technique in detail.	₅ ي.	
	Q.2	d)	Specify the disadvantage of DDA algorithm	5 C	
		a)	Explain the steps used in rotation of 2 D object about an arbitrary axis and hence derive the matrix for the same.	10.co	
		b)	Compare flood fill and boundary fill algorithm illustrating the same with a diagram	10	
	Q.3	a)	Explain any one polygon clipping algorithm in detail.	10	
www.a2zsubjects.com		b)	Explain midpoint circle algorithm. Explain the same to plot a circle whose radius is 10 units	10	
	Q.4	a)	Explain Cohen Sutherland line clipping algorithm in detail	10	
		b)	Explain what is meant by Bezier curve. Also explain the properties of	W	
	y		Bezier curve	1022	
	Q.5	a)	What is meant by parallel and perspective projections? Derive matrix for perspective projections	10ZSU	
		b)	Define window, viewport and hence explain how window to viewport transformation is performed	ığec	
	Q6	a)	Write short notes on (any two):	20 5	
		b)	Gourand and Phong shading technique	CO	
m		c)	Shearing and viewing transformation Sweep representation	com	
		B.	on top roprosonation		