PRN:		Course Code :	UCA302

Second Year **S.Y.B.C.A.** End Semester Examination Summer 2023

Computer Graphics

Day and Date: Thursday, 30/11/2023 Max Marks: **100**

Time : 2.00 to 5.00 PM Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom Level	COs
Q.1		**Attempt the following**			
	a)	Explain architecture of CRT with a neat diagram.	08	L2	CO1
	b)	Discuss Applications of Computer Graphics.	08	L1	CO1
		OR			
	b)	Compare Random Scan Display and Raster Scan display.	08	L1	CO3
Q.2		**Attempt the following**			
	a)	State 2d rotation with matrix representation. And solve object with point A(2,1),B(3,0) and C(2,2),D(0,0) apply rotate an object by 45 degree.	08	L6	CO4
	b)	Elaborate in detail 2D Transformation proper example.	08	L6	CO4
		OR			
	b)	Write a concept of Affine and Perspective Geometry.	08	L1	CO3
Q.3		**Attempt any two from the following**			
	a)	Elaborate Bresnham Line drawing algorithm.	08	L6	CO4
	b)	Construct edge fill algorithm with example.	08	L6	CO4
	c)	Compare Flood fill and Boundary fill algorithm.	08	L1	CO2
Q.4		**Attempt any two from the following**			
	a)	Elaborate Cohen Sutherland Line Clipping Algorithm.	08	L6	CO4
	b)	Define Computer Graphics Window to Viewport Co-ordinate Transformation.	08	L1	CO4
	c)	Define clipping and discus types of clipping with example..	08	L2	CO2
Q.5		**Attempt any Two of the following**			
	a)	Compare Parametric and Non parametric curve detail.	09	L1	CO2
	b)	State concept of Bezier Curve.	09	L2	CO3
	c)	Explain Warnock algorithm.	09	L2	CO4
Q.6		**Attempt any Two of the following**			
	a)	Classify motion control methods.	09	L2	CO4
	b)	Explain procedural animation in details.	09	L4	CO4
	c)	Summarize Key frame animation in details.	09	L2	CO3

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