PRN:	

Course Code :	**UCA302**

000689

Second Year **S.Y.B.C.A.** End Semester Examination winter 2024

Computer Graphics

Day and Date: Mon 25 NOV 2024 Max Marks: **100**

Time : 10:30AM To 01:30PM Duration: **03** hrs

Instructions: All questions are compulsory.

			Mark	Bloom Level	COs
Q.1		**Attempt the following**			
	a)	Explain architecture of CRT with a neat diagram.	08	L2	CO1
	b)	Explain in brief working of Raster Scan display.	08	L2	CO1
		OR			
	b)	Define the Graphics Primitives in detail.	08	L1	CO3
Q.2		**Attempt the following**			
	a)	State 2D reflection with matrix representation. And solve object with point A (2,1), B (3,0) and C (2,2), D (0,0) apply reflection on the Y axis.	08	L4	CO4
	b)	Illustrate in detail 2D Translation and Rotation with proper example.	08	L4	CO4
		OR			
	b)	State a concept of Rotation about an axis parallel to a coordinate axis.	08	L2	CO3
Q.3		**Attempt any two from the following**			
	a)	Elaborate Brenham Circle drawing algorithm.	08	L4	CO4
	b)	Discuss Run-Length Encoding.	08	L4	CO4
	c)	Compare flood fill and Boundary fill algorithm.	08	L2	CO2
Q.4		**Attempt any two from the following**			
	a)	Elaborate Cohen Sutherland Line Clipping Algorithm.	08	L4	CO4
	b)	Discuss a concept of view porting	08	L2	CO4
	c)	Define clipping and discus types of clipping with example.	08	L2	CO2

Page - 1/2

Backlog

Q.5	**Attempt any Two of the following**				
	a)	Discuss the concept of z-buffer.	09	L3	CO2
	b)	Extend the Warnock algorithm in brief.	09	L2	CO3
	c)	State Parametric and Non parametric curve detail.	09	L2	CO4
Q.6	**Attempt any Two of the following**				
	a)	State and explain motion control methods .	09	L2	CO4
	b)	Extend morphing and 3d morphing.	09	L4	CO4
	c)	Illustrate procedural animation in details.	09	L2	CO3

*****

Backlog