O.F Code: 20MC9110

	21	
R20		

		SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOG	GY:: PUTI	ſUR			
(AUTONOMOUS) MCA I Year II Semester Regular& SupplementaryExaminations June-2025							
COMPUTER GRAPHICS							
1 ime	Time: 3 HoursM(Answer all Five Units $5 \ge 12 = 60$ Marks)				00		
		UNIT-I					
1	a	Identify various applications of Computer Graphics.	CO 1	L1	6M		
-		Discuss aout Scan line Polygon fill alogorithm.	CO1	L2	6M		
		OR					
2	a	Construct the Steps for Bresenham's Line algorithm.	CO1	L2	6M		
	b	Expalin Raster Scan and Random Scan Displays	CO1	L3	6M		
		UNIT-II					
3	a	List out various 2D Geometric Transofrmations.	CO2	L1	6M		
	b	Show matrix representation for various 2d Transformations.	CO2	L2	6M		
		OR					
4	a	List out and Explain various kinds of 3D composite transformations wi	th CO2	L1	6M		
		example.					
	b	Demonstrate Shearing Transformation in 3D with an example.	CO2	L3	6M		
		UNIT-III					
5	a	Demonstrate steps for window to viewprt coordinate transformation wi	th CO3	L3	6M		
		example.					
	b	Discuss about line Clipping.	CO3	L2	6M		
-		OR	60	~ •			
6		Discuss about Polygon Clipping.	CO3	L2	6M		
	b	Define Curves. Explain the types of curves.	CO3	L4	6M		
_		UNIT-IV					
7		What do you mean by Visible Surface Detection?	CO4	L2	6M		
	b	Explain classification of VSD Algorithm.	CO4	L4	6M		
0		OR Discuss the factors on which lightening offset depends	CO4	т 2	(M		
8		Discuss the factors on which lightening effect depends. Illustrate Halftone Pattern briefly.	CO4 CO4	L3 L5	6M		
	U		004	L3	6M		
0		UNIT-V	005	1.2			
9	a L	Write short notes on XYZ Color Model.	C05	L2	6M		
	b	Discuss about Color Models.	CO5	L2	6M		
10	a	OR Explain various properties of Light.	CO5	L3	6M		
10		Write short notes on Animation.	C05	L3 L2	6M		
	U	*** END ***	005		UIVI		