O.P.Code: 20MC9110	R20	H.T.No.									

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

MCA I Year II Semester Regular & Supplementary Examinations August-2023

COMPUTER GRAPHICS

Time: 3 Hours **Max. Marks: 60**

(Answer all Five Units **5 x 12 = 60** Marks)

UNIT-I

1	a	List out various video display devices.	CO2	L1	4M
	b	Explain Raster and Random Scan Displays.	CO2	L2	8M

OR

2	a	Construct the steps for Bresenham's Line Algorithm. With example.	CO2	L6	8M
	b	Develop a program to implement Bresenham'sLine Algorithm.	CO2	L3	4M

UNIT-II

3		Determine various kinds of 2D composite transforms in detailed with example.	CO4	L3	12M

OR

4		Identify various kinds of 3D basic transformations with examples.	CO4	L3	12M

UNIT-III

5	a	Discuss about polygon clipping.	CO3	L2	5M
	b	Demonstrate Sutherland-Hodgeman Polygon Clipping.	CO3	L2	7M

OR

6		Explain in detail about polygon surface with an example.	CO3	L2	12M

UNIT-IV

7	a	Explain Back-Face Detection Method.	CO5	L2	6M
	b	Build the steps for Depth-Buffer Method.	CO5	L3	6M

OR

8		Classify and explain various illumination models.	CO5	L4	12M

UNIT-V

9	a	Explain in detail about CMY Color Model.	CO6	L2	6M
	b	Explain in detail about HSV Color Model.	CO6	L2	6M

OR

10	a	Write short notes on Animation.	CO6	L1	6M
	b	Identify various application areas of Animation.	CO6	L3	6M

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