Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
MCA I Year II Semester Regular Examinations November 2021
COMPUTER GRAPHICS

Time: 3 hours   Max. Marks: 60

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

UNIT-I

1	a	Explain about computer graphics & their areas of applications.	L5	6M
	b	Explain about overview of graphics systems.	L2	6M

OR

2	Explain about DDA line drawing and circle generating algorithm.	L2	12M

UNIT-II

3	a	Define about reflection and shearing transformations.	L5	6M
	b	Explain about matrix representation and homogeneous coordinates.	L5	6M

OR

4	Explain about scaling and rotations of 2D and 3D geometric transformations.	L5	12M

UNIT-III

5	a	List out and explain various kinds of viewing functions.	L2	6M
	b	Define about 3-D viewing functions.	L5	6M

OR

6	Explain about B-Spline curves and surfaces.	L2	12M

UNIT-IV

7	a	Explain about depth sorting method.	L2	6M
	b	Discuss about BSP tree method.	L6	6M

OR

8	Elaborate the contents of gouraud shading, phong shading, fast phong shading.	L6	12M

UNIT-V

9	a	Briefly discuss about color selection and applications with examples.	L6	6M
	b	Convert between HSV and RGB models.	L1	6M

OR

10	Discuss in briefly about computer animation functions and raster animations.	L6	12M

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