Subi	act (Code:3150712 Date:04/0	6/2022
•			0/2022
Subject Name: Computer Graphics			
Time:02:30 PM TO 05:00 PM Total Marks: 7			
Instructions: 1. Attempt all questions.			
		Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
	4.	Simple and non-programmable scientific calculators are allowed.	
		Co	MARKS
Q.1	(a)	Explain applications of Computer Graphics.	03
	(b)	1	04
	(c)	Describe DDA line drawing algorithm.	07
Q.2	(a)	Explain 2D Reflection and Shearing transformation.	03
Q.2	(b)		04
	(,,,	(9, 18) and ending coordinates (14, 22).	
	(c)		07
		0), (1, 0) and (1, 1). Rotate the triangle by 90 degree anticlockwise	
		direction.	
		OR	
	(c)	Explain midpoint ellipse generation algorithm, Write pseudo code for	07
0.2	(a)	midpoint ellipse generation algorithm.	03
Q.3	(a) (b)	•	03
	(c)	Explain scan line fill algorithm and with all data structures used in	07
	(0)	algorithm.	0,
		OR	
Q.3	(a)	Explain window to view port transformation	03
	(b)		04
	(c)	Explain types of projection.	07
0.4	(0)	What are the characteristics of line drawing algorithm?	0.2
Q.4	(a) (b)	What are the characteristics of line drawing algorithm? What are inside – outside tests?	03 04
	(c)	What is aliasing? How to compensate the aliasing? Describe in detail.	07
	(-)	OR	
Q.4	(a)	Explain properties of Bezier curve.	03
	(b)		04
		1) Aspect ratio 2) Cubic spline 3) Window port	0 =
	(c)	Describe NLN clipping algorithm.	07
	٠, ١		
Q.5	(a)	Explain RGB color model.	03
1	(b)	·	04
	(c)	Explain Depth Buffer method for visible surface detection.	07
		OR	
Q.5	(a)	Explain CMY color model.	03
	(b)		04
4		(1) Dominant Frequency (2) Purity (3) Clipping (4) Frame buffer	0.5
	(c)	Describe Cohen Sutherland Line clipping algorithm with example.	07
