		Reg. No:									
		Question	1 Paper	Code	:U52	01					
B.E./B.Tech. DEGREE EXAMINATION, NOV 2024											
		F	ifth Seme	ester							
		Computer	• Science	Enginee	ering						
	21	UCS501-GRAI	PHICS A	ND MU	LTIM	EDIA					
		(Re	gulation	2021)							
Dura	ation: Three hours						Ma	aximum: 100 Marks			
		PART A	- (10 x 2	= 20 Ma	arks)						
1.	What is an output primitive?						CO1-U				
2.	Define clipping and explain any Two types of Clipping.							CO1-U			
3.	Derive the matrix for pivot point rotation.							CO1-U			
4.	Show that reflection is equivalent to 180° rotation.							CO1-U			
5.	Define Quadratic Surface.							CO1-U			
6.	How do you represent sphere in three dimensions?							CO1-U			
7.	What do you mean by Color Model?							CO1-U			
8.	What is Polygon shading?							CO1-U			
9.	Define multimedia.							CO1-U			
10.	Define MIDI.							CO1-U			
11.	(a) Use and explain t line with end poir	PART he Bresenham' hts (35,40) & (4	– B (5 x s line alg 13,45). Or	16= 80M orithm t	Marks) to digit	tize th	e	CO2	-App	(16)	
	(b) Use and explain t end points (2,3) &	he DDA line al x (12,8).	gorithm	to digitiz	ze the I	line w	vith	CO2	-App	(16)	
12.	(a) Explain Cohen-Su	utherland line c	lipping a	lgorithn	1.			CO1	-U	(16)	
		(Or								
	(b) Explain the transformed for Translation, S illustration.	formation in 21 Scaling and Ro	D with th otation G	e matrix ive suita	x repre able di	esenta iagrar	tions n for	CO1	-U	(16)	

13.	(a)	Describe in detail about 3D object representations.	CO1-U	(16)				
Or								
	(b)	List the properties of the Bezier Curve and also explain Bezier techniques of generating curves.	CO1-U	(16)				
14.	(a)	Explain shading models in detail. Or	CO1-U	(16)				
	(b)	Illustrate the basic color models in detail.	CO1-U	(16)				
15.	(a)	Explain the concepts of images and graphics. Or	CO1-U	(16)				
	(b)	Explain in detail about various compression technique in detail.	CO1-U	(16)				