С		Reg. No. :											
		Question Paper	r C	ode	: 55	803	;						
B.E. / B.Tech. DEGREE EXAMINATION, MAY 2024													
Fifth Semester													
Computer Science and Engineering													
15UIT503 -GRAPHICS AND MULTIMEDIA													
(Common to Information Technology)													
(Regulation 2015)													
Dura	ation: Three hours	Anguar AI	ΙO	hast	iona	Ν	laxiı	num	: 100) Ma	rks		
Allswei ALL Questions $PAPT A (5 \times 1 = 5 Morths)$													
1	$PART A - (5 \times 1 = 5 \text{ Marks})$ The translation distances (dy. dy) is called as									CO	1 D		
1.			as) D	л	1	1		хт. •.1				1- K
	(a) Translation vector (b) Shift vector (c) Both a and b (d) Neither a r							nor	b				
2.	The most basic transformation that are applied in three-dimensional planes are CO2-								2- R				
	(a) Translation	(b) Scaling	(c) Ro	otatic	n			((d) A	ll of	thes	e
3.	The color code "000" is for									CO2	3- R		
	(a) White	(b) Black	(c) Blue (d) ((d) G	ireen	reen				
4.	MIDI stands for											CO	1- R
	(a) Musical Instrument Digital Interface (b) Musical Instrument Design							Inter	face				
	(c) Musical Instrument Digital Instruction (d) MP3 Instrument Digital Interview							erfac	e				
5.	A video consists of a sequence of								CO	5- R			
	(a) Frames	(b) Signals	(c) Pa	cket	S			((d) S	lots		
PART - B (5 x 3 = 15 Marks)													
6.	Write down the shear tra	nsformation matrix	x.								C	201	R
7.	Differentiate between interpolation spline and approximation spline.						C	202	R				
8.	How will you convert from YIQ to RGB color model?						C	203	R				

9.	Wri	te short notes on medium and traditional data streams.	CO4 R		
10.	Def: repr	ine the term multimedia communication. State the basic form of esenting different media.	CO5 R		
		PART – C (5 x 16= 80 Marks)			
11.	(a)	Explain in detail on two dimensional geometric transformations with suitable examples.	CO1- U	(16)	
		Or			
	(b)	Illustrate in detail the cohen sutherland line clipping algorithm with suitable examples.	CO1- U	(16)	
12.	(a)	With suitable examples, explain all 3D transformations. Or	CO2- U	(16)	
	(b)	Discuss the various surface detection methods in detail.	CO2- U	(16)	
13.	(a)	Write informative notes on RGB and HSV color models. Or	CO3- U	(16)	
	(b)	Elaborate in detail about the various shading models with relevant sketch.	CO3- U	(16)	
14.	(a)	Elucidate MIDI Messages and devices in detail. Or	CO4- U	(16)	
	(b)	Describe in detail JPEG compression technique with neat diagrams.	CO4- U	(16)	
15.	(a)	Discuss optical storage systems providing informative points. Or	CO5- U	(16)	
	(b)	Elaborate video conferencing with suitable architecture diagram.	CO5- U	(16)	