A		Reg. No. :									
Question Paper Code: 55803											
B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018											
Fifth Semester											
Information Technology											
15UIT503 - GRAPHICS AND MULTIMEDIA											
(Regulation 2015)											
Duration: Three hours				Maximum: 100 Marks					arks		
PART A - $(5 \times 1 = 5 \text{ Marks})$											
1.	The original coordinates of the point in polor coordinates are CO1- R										
	(a) X'=r $\cos(\Phi + \Theta)$ as	Θ) and Y'=r cos (Φ + Θ) (b) X'=r cos (Φ + Θ) and Y'=r sin (Φ + Θ)									
	(c) X'=r cos (Φ - Θ) and Y'=r cos (Φ - Θ) (d) X'=r cos (Φ + Θ) and Y'=r sin (Φ - Θ)						θ)				
2.	Which transformation alters the size of object?							CO2- R			
	(a) Shear			(b) Translation							
	(c) Scaling		(d) F	Rotatio	on						
3.	White color in a Cartes	sian coordinate syste	em can b	e rep	resei	nted a	IS			(CO3- R
	(a) (0,1,1)	(b) (0,1,0)	(c) (0,1,1)				(d) . (1,1,1)
4.	In Joint Photographic divided into blocks of	Experts Group (JF	PEG), a	gray	scale	e pict	ture	is			CO4 -R
	(a) 5 X 5 pixels	(b) 6 X 6 pixels	(c) 7	X 7 1	pixel	S		(d) 8 1	X 8 p	oixels

5.	Which one is to define the form and content of messages exchanged between nodes?								
	(a) I	Network layer (b) Protocol (c) Extended Networks	(d) Caching						
		PART - B $(5 \times 3 = 15 \text{ Marks})$							
6.	Wha	Vhat is transformation? Briefly explain Two dimensional scaling. CO1							
7.	Dra	w three Dimensional viewing pipeline and explain.	CO2- R						
8.	What are fractals? Explain self similarity fractals in detail.								
9.	Define animation. Write short notes on key frame animation. CO								
10.	Wri	te briefly about dedicated function Boards.	CO5 -R						
		PART – C (5 x 16= 80Marks)							
11.	(a)	Explain Bresenham's Line Drawing Algorithm for the center: (20, 10) and (30, 18).	CO1 -App	(16)					
	Or								
	(b)	(i) Write short notes on line attributes.	CO1- App	(4)					
		(ii) Discuss about Cohen Sutherland line clipping algorithm.	CO1 -App	(12					
12.	(a)	Explain different types of Three dimensional transformations with necessary diagrams and examples.	CO2 -App	(16)					
	Or								
	(b)	Explain Polygon surface and Quadratic surface representations with neat sketches.	CO2 -Ana	(16)					
13.	(a)	Compare and Contrast the following color models in detail. a)RGB, b)YIQ, c) CMY, d) HSV	CO3- Ana	(16)					
		Or							
	(b)	Explain the following(i) Smooth and flat shading(ii) Adding Texture to faces	CO3 -Ana	(16)					

14. (a) Define MIDI. List its attribute. Compare and contrast the use of CO4 -U (16) MIDI and digitized audio in multimedia production.

Or

	(b)	Explain about JPEG compression.	CO4 -Ana	(16)
15.	(a)	Explain WORM optical drive in detail with necessary diagrams Or	CO5- U	(16)
	(b)	Explain the principle of video conferencing in detail.	CO5- U	(16)