Reg. No.:					

(d) Scaling

(c) Translation

Question Paper Code: 37202

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Seventh Semester

Computer Science and Engineering

01UCS702 - INTERACTIVE COMPUTER GRAPHICS

	010CS/02 - INTERACT	IVE COMPUTER GRAPHICS	•				
	(Regu	ulation 2013)					
Dı	uration: One hour	Maximu	ım: 30 Marks				
	PART A -	$(6 \times 1 = 6 \text{ Marks})$					
	(Answer any six of	f the following questions)					
1.	Describe how pictures are stored in Raster scan system						
	(a) Intensity value	(b) Line commands					
	(c) Pixel commands	(d) Image Resolution					
2.	is an example of filling object interiors using the odd-even rule locate						
	(a) Scan-line fill algorithm	(b) Parallel line fill algorithm					
	(c) Frame-buffer fill algorithm	(d) Mid-point fill algorithm					
3.	A composite transformation matrix can be made by determining theo natrix of the individual transformation.						
	(a) Sum (b) Reflection	(c) Difference	(d) Product				
1.	The region against which an object is c	ne region against which an object is clipped is called a					
	(a) Clip Window (b) Boundary	(c) Enclosing rectangle	(d) Clip square				
5.	The matrix formulation for rotation in homogeneous coordinates is						
	(a) $P'=T+P$ (b) $P'=S*P$	(c) $P'=R*P$	(d) P'= $dx+dy$				
6.	we can take a view of an object from	om different directions and d	lifferent				

(b) Rotation

distances

(a) Projection

7.	uses color descriptions that have a more intuitive appeal to a user.					
	(a) RGB color Model		(b) CMY Color Mod	lel		
	(c) YIQ Color Model		(d) HSV Color Mod	el		
8.	•	• •	the presence of polys			
	(a) Rasterizing	(b) Rendering	(c)Smoothing	(d)None		
9.	refers to	• • • • • • • • • • • • • • • • • • • •	ation or presentation tha t, graphics, video, anima			
	(a) An executable file	(b) Desktop publi	shing (c) Multimedia	(d) Hypertext		
10.	The GIF standard is lim	ited to color	images only.			
	(a) 32-bit	(b) 24-bit	(c) 16-bit	(d) 8- bit		
		PART - B (3 x)	8= 24 Marks)			
	(Ansv	ver any three of th	e following questions)			
11.	Enumerate the steps	involved in line dra	wing algorithms with an	example. (8)		
12.	Explain about transformations.	slation, scaling ar	nd rotation of two dis	mensional geometric (8)		
13.	Explain in detail abo	ut B-Spline curves	and surfaces.	(8)		
14.	Explain in detail abo	ut HLS color mode	1.	(8)		
15.	Interpret the file form	nat used data repres	sentations in multimedia.	(8)		