## SARDAR PATEL UNIVERSITY

T.Y.B.C.A. (Fifth Semester) (CBCS) EXAMINATION, November-2013

US05CBCA02 : Computer Graphics

Date:19/1	11/2013	Time:10	0:30 to 01:30	To	otal Marks: 70		
Q.1	Multip	ple zhoice questions:			[10]		
1	In	scan picture definition is	stored as a set	of intensity values			
	(a) (c)	Random Proper	(b) (d)	Raster None of the above			
2	DVS	T stands for		- Complete the second			
	(a) (c)	Direct Vision Storage Tube Direct View Storage Tube	(b) (d)		5 11		
O 3	Bean	n penetration displays maximum _		colors.	70 1 0/4-		
	(a) (c)	8	(b) (d)	4 32			
4		is the equation for str	aight line.				
		$y = m \cdot x + b$		y = m/x + h			
	(C)	$y = m \cdot x \cdot b$	(a)	$y = m \cdot x - b$			
5	is procuced by capping the connection between the two segments with a circular boundary.						
	(a)	Round join	(b)	Bevel join	1		
	(c)	Square join	(d)	Miter join			
6	Α	A is a transformation that produces a mirror image of an object.					
0	(a) (c)	Translation Rctation	(b) (d)	Reflection Shear			
7	A wo	orld coordinate area selected for o	lisplay is called	d			
	(a) (c)	Window Clip Window	(b) (d)	Viewport None of these			
8	B Defa	ault frame rate is fps.					
BUL			(d) 15				
9	Sho	rtcut key to enter key frame in FL					
	(a)	F5 (b) F6 (c) Shi	ft + F5 (d) Sh	ift + F6			
10	You imm	can use the tool to collediately apply them to another ob	ject.		t and		
	(a)	Free transform	(b) (d)	Ink bottle Fill Transform			
	(c)	Eyedropper	(4)	1011010111			

Q.2	Attempt any ten out of twelve.	[20]
	1. Define term Resolution.	
í	2. Define term Device coordinates and Modeling coordinates.	
-0	<ol> <li>Differentiate between impact and non-impact printers.</li> <li>Write only algorithm for Boundary Fill operation.</li> </ol>	
DIL	5. List attributes for the character. Explain any one.	
	6. Explain Gray scale in short.	
	7. Define rotation and reflexation.	
	8. What is scaling? And list out its types.	
	9. What is window-to-viewport or windowing transformation?  10. Define lever and frame.	
	<ul><li>10. Define layer and frame.</li><li>11. Explain play and stop actions of movie clip.</li></ul>	
4.	12. Explain geturl actions to control browser network.	
Q.3 (a)	Explain working of CRT in detail.	[4]
(b)	List all types of input devices and explain any two in detail.	[6]
	OR	
(a)	Differentiate between Raster scan displays and Random scan displays.	[4]
(b)	Write short note on: 1.Shadow Mask Method 2.LED	[6]
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Q.4 (a)	What is inside–outside test? Explain odd-even rule with example.	[6]
(b)	Explain flood fill algorithm (4-connected) with diagram.	[4]
	OR	-
(a)	Write steps for Bresenham line drawing algorithm.	[6]
(b)	Write a note on color attribute.	[4]
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Q.5 (a)	Explain in brief Sutherland Hodgeman polygon clipping algorithm.	[4]
(b)	What is text clipping? List out all types and explain it with example.	[6]
	OR OR	
(a)	Write a short note on Viewing Pipeline.	[4]
·(b)	What is geometric transformation? List all 2-D geometric transformation and explain any	[6]
	one in detail.	
Q.6	Evaloin mark animation mation tugan enimation and above tugan enimation with	F4.01
Q.U	Explain mask animation, motion tween animation and shape tween animation with example.	[10]
	OR	
Q.6	What is onion skinning? Explain the use of onion skinning in detail.	[10]
	2. Explain toolbox of flash in detail.	