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SARDAR PATEL UNIVERSITY								
	B.C.A Examination, 5 Semester (CBCS) (REGULAR)							
	Wednesday, 18 March 2015							
		10.30 ar	m – 1.30 pm					
Cours	se Cod	e: US05CBCA02						
Cours	se Title	e : Computer Grap	hics	Total Marks: 70				
Q1.	Multipl	e Choice Questions.		[10)]			
1.	The ratio of vertical points to horizontal points necessary to produce equal length lines in both direction is called							
	a	n. Pixel	. b .	Aspect ratio				
	c	. Persistence	d.	Resolution				
2.	Control	grid in CRT is responsi	ble for change	in				
	a.	Brightness	b.	Reflection				
	С.	Deflection	d.	Focusing angle				
3.		technique is	s used to modif	y or interpret existing pictures.				
	a.	Computer Art	b.	GUI				
	C.	Visualization	d.	Image Processing				
4.	In a fou	r-level gray scale color	system, Intensi	ity of white color is				
	a.	0	b.	0.33				
	C.	0.67	d.	1				
5.	In Odd-	Even rule point is exter _ number.	ior, if the num	ber of polygon edges cut it is an				
	а.	Odd	b.	Even				
	С.	Zero	d.	Natural				
6.	Α	is a transformat	ion that produc	es a mirror image of an object.				
	а.	Rotation	b.	Scaling				
	С.	Reflection	d.	Translation				
7.	The reg	ion against which an ob	ject is to be cli	pped is called a				
	a.	Window	b.	Viewport				
	Ċ.	Viewmáp	d.	Clip window [.]				
8.	Default	frame rate in FLASH is	fps					
	a.	30	D.	60 100				
	C.	12	a.	120				
9.	interme backgro a.	animations are indica diate tweened frames h bund. Motion Guide	ated by a black ave a black arr b.	dot at the beginning keyframe; ow with a light-blue Motion Tween				
	C.	Shape Tween	d.	Frame by Frame				
10.	Default	background color of the	stage in FLAS	SH is				
	э	Blue	h	Black				
	а. С.	Green	d.	White				

Q2.	Answer the following short questions (Attempt any TEN)	[20]			
1.	Define the term: Resolution.				
2.	State disadvantages of beam penetration method used in color monitors.				
3	List 2 examples each of impact and non-impact printers.				
4.	Differentiate between : Bitmap and Outline fonts				
5.	List different types of joins and caps used for displaying thick line segments.				
6.	Explain Boundary Fill algorithm using 4 connected approach.				
7.	Define : 1. Window 2. Viewport.				
8.	What is clipping ? State the necessary condition for point clipping.				
9.	What is Geometric Transformation? List out ail geometric transformations?				
10.	Define : 1. Frame 2. Guided Motion.				
11.	What is a Keyframe ? Also give shortcut key to insert a keyframe.				
12.	Explain geturl action to control browser network.				
Q3.a.	Write a detailed note on applications of Computer Graphics.	[6]			
b.	Explain any one technique used in color monitors in detail.	[4]			
	OR				
Q3.a.	Explain working of CRT with labeled diagram.	[6]			
b.	Explain DVST in detail.	[4]			
Q4.a.	Write steps for Bresenham line drawing algorithm.	[6]			
b.	Write a note on line attributes.				
	OR				
Q4.a.	Write steps for mid-point circle generation algorithm.	[6]			
b.	State purpose of inside-outside test? Explain any one method for the same.	[4]			
Q5.a.	Explain Rotation transformation in detail.	[6]			
b.	Explain Cohen Sutherland line clipping algorithm.	[4]			
	OR				
Q5.a.	Explain Reflection transformation in detail.	[6]			
b.	What is text clipping? List various techniques of text clipping and explain them	[4]			
	with example.				
Q6.	Explain toolbox of flash in detail.	[10]			
	OR				
Q6.	Explain following animations in FLASH with example:	[10]			
	i) Motion Tween ii) Mask animation				

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