SARDAR PATEL UNIVERSITY

EXTERNAL EXAMINATION - November - 2013

B. Sc. (Computer Science) Semester V US05CCSC06 : Computer Graphics and Multimedia

Date	: 25-11-2013, Monday	Ţ	ime: 10:30 A.M. TO 01:30 P.M.	
0.1	Multiple Choice Questions		Max Marks: 70	
Q-1	•	ation of Computer Graphic	[10]	
1	[a] Computer Aided Design	[b] Presentation Graphics		
	[c] Power Point	[d] Computer Art		
	[c] Fower Tonic	[u] Computer Art		
2	CRT stands for			
2	[a] Cathode Ray Tube	[b] Computer Ray Tube	vice and the first of the Artist Control	
	[c] Common Ray Tube	[d] None of the Above		
	[c] Common Ray Tube	[d] None of the Above		
3	is a nuimany innut do	uiaa fan antanina atnina		
)		vice for entering string.		
,	[a] Mouse	[b] Joystick		
	[c] Trackball	[d] Keyboard		
4	obtained by adding a filled	samicirale to each butt can		
4	[a] Round cap	-		
		[b] Circle cap		
	[c] Projecting square cap	[d] Semi circle cap		
_	style is used to fill an area w	with adjusted hotahing notter	ne narallal lines or aroused	
5		in selected natening patter	ns-paramet fines of crossed	
	lines.	ru calla		
	[a] Hatch	[b] Solid		
	[c] Patterned	[d] Hollow		
6	is defined as the di	stance between the baselin	e and the can line of the	
	character.	statice octween the baselin	e and the cap line of the	
1	[a] Character height	[b] Character it self	to the manageral and	
	[c] Character body	[d] Character width		
	[C] Character body	[u] Character within		
7	A is applied to an object	thy repositioning it along a	straight - line noth from	
. '	one coordinate location to another.	i by repositioning it along a	straight - The path from	
)	[a] Scaling	[b] Translation		
	[c] Shear	[d] Rotation		
	[c] Shear			
R	A world coordinate area selected for dis	nlay is called		
	[a] window	[b] viewport	ari afar, 10 na camagawa (b.	
	[c] clip window	[d] none of these		
:	[c] onp window	[d] none of these		
9:	is the process of dividing th	e animation work involved	into meaningful parts or /	
	is the process of dividing the animation work involved into meaningful parts or / and allocates work between the animators.			
	[a] Modulating	[b] de-modulating		
	[c] both (a) & (b)	[d] None of above		
	[c] both (a) & (b)	[d] None of above		
10	The process of converting analog signal	s to digital signals by way o	of taking discrete samples	
ro :	is called	s to digital signals by way t	i taking discrete samples	
	[a] digitizing	[b] non-digitizing		
	[c] both (a) & (b)	[d] None of above		
		[u] INDITE OF AUDIVE		

Q-2 1	Define the terms: 1. Aspect Ratio 2. Resolution	[20]			
3	List primary components Electron gun of CRT and state its functions.				
	List attributes for the line, Explain any one. List various character attributes.				
6	 List various character attributes. What is inside-outside test? List various methods used for the same. What is clipping? List out all clipping object. 				
8	What is viewing transformation? What is window-to-viewport?				
9 10					
11	List the Audio jacks.				
12	Explain the need for audio editing.				
Q-3	What is Computer Graphics? Explain in brief a major application area of Computer Graphics.	[10]			
	OR		1		
Q-3	Explain in detail raster scan. Differentiate between Raster scan displays and Random scan displays	[10]	×		
Q-4	and the second of the second o				
A	Write steps for DDA line drawing algorithm.	[05]			
В	Explain boundary fill algorithm (4-connected) with diagram. OR	[05]			
Q-4		11.			
A B	Write steps for mid-point circle generation algorithm. Explain odd-even rule with example.	[05] [05]			
0.5					
Q-5 A	Explain in brief Cohen Sutherland Line Clipping Algorithm.	[05]			
В		[05]			
: .	OR				
Q-5	What's are distanced and an all and the second and	50.47			
A	What is geometric transformation? List all 2-D geometric transformation and explain Rotation in detail.	[05]			
В		[05]			
Q-6					
A B	What is multimedia? Also explain various facets of multimedia. Write a note on '2D Animation Techniques'				
. ٻ	OR which is the second of the				
Q-6					
A B		[05] [05]			