SARDAR PATEL UNIVERSITY M.Sc. (BioInformatics) - Third Semester Examination PS03CMBI04: Graphics and Animation 7th December, 2012

Time: 2:30 p.m. To 5.30 p.m.									Marks: 70		
Q1. [A]	Do as directed. [Any THREE] What is computer graphics? Discuss at least three applications of computer graphics the field of bio-informatics.										[15]
[B]	Write a short note on Shadow mask method.										
[C]						ng algo					
[D]	Magnify the triangle with vertices A(0,0), B(1,1) and C(5,2) to thrice its size and find new set of vertices.										
Q2.	Do as	direc	ted.	te						*	[12]
[A]	What is an attribute? Explain any two attributes about line.										
[B] [C]	Discuss the basic 2-dimensional geometric transformation Translation in short. What is clipping? Explain Cohen – Sutherland line clipping algorithm.										
Q3.	Do as directed.										[8]
[A]	Write short note on character generation										
[B]								ension	al object	t about Y-axis.	
Q4.	Do as directed.										
[A]	Do as directed. Explain briefly the different stages of image processing and analysis scheme.										
[B]	Write short note on: Features of Authoring package. Discuss the process of converting color value in CMYcolor model to YIQ color model.										
[C]	Discu	ss the	proces	s of co	onvert	ing co	lor val	ue in (CMYcol	or model to YIQ color model.	
Q5.	Do as directed.										
[A]	Explain briefly 3-dimensional animation process.										
[B] [C]	Write the difference between Multimedia Programming and Multimedia Authoring. Suppose M be the gray level of input image, which has to be transformed to L by linear stretching. Then L is the gray level of the output image. Let N _i and N' _i are the number of pixel having i-th gray level in the input and the output images respectively. Suppose for an 8-level image we have following frequency table for the input gray levels, then using linear stretching find the frequency table for the output gray levels.										
	i	0	1	2	3	4	5	6	7		
	Ni	0	0	k	q	m	n	p	0		
Q6.	Do as	direct	ed.								
[A]	Define: Splicing, Dithering, Multimedia Authoring [3										
[B]	Write the features of PNG graphics file format.										
[C]	Explain any four good features of a graphics package Flash.										[3]

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