B.Sc. (Part—III) Semester–VI Examination COMPUTER APPLICATIONS / INFORMATION TECHNOLOGY

(Computer Graphics, Multimedia and Animation)

Time	: : Tł	iree l	Hours	s]			[Maximum Mark	is:80	
Note	:	(1)	Ali	questions are compulsory.					
		(2)	Assı	ume suitable data whereve	er necessa	ary.			
		(3)	Illustrate your answer wherever necessary with the help of neat sketches.						
		(4)	Q. No. 1 carries 8 marks and all other questions carry 12 marks.						
1.	(A)	Fill	in the	e blanks :		2			
		(i)	PNC	G is an acronym for					
		(ii)	Bres	senham's Algorithm is use					
		(iii)	Ligh	nt Pen is an		device.			
		(iv)	Zip	files are	file.				
	(B)	Cho	ose t	he correct alternative:				2	
		(i)		is not disp	olay type				
			(a)	LED		(b)	LCD		
			(c)	Plasma		(d)	Light Pen		
		(ii)	Trar	nsformation includes		· ·			
			(a)	Scaling		(b)	Rotation		
			(c)	Translation		(d)	All of the above		
		(iii)	Pair	nt-brush image is stored in	1		_ format.		
			(a)	bmp		(b)	png		
			(c)	jpeg		(d)	All of the above		
		(iv)	is the basic component of any drawing.						
			(a)	Line		(b)	Circle		
			(c)	Pixel		(d)	Colour		
	(C)	(i)	Wh	at is Computer Graphics	?				
		(ii)	Wh	at is Multimedia?					
		(iii)	Wh	at is Animation?					
		(iv)	Exp	plain types of Tweening.				4	

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2.	(a)	Explain the working of CRT with suitable diagram.	6	
	(b)	Compare Raster Scan System with Random Scan System.	6	
		OR		
3.	(a)	Explain the working of Light Pen.	6	
	(b)	Explain how graphics are helpful in the area of fine arts and animation.	6	
4.	(a)	Explain various attributes of line.	6	
	(b)	Write an algorithm for generation of circle.	6	
		OR		
5.	(a)	Explain:		
		(i) Frame Buffer		
		(ii) Color Tables.	6	
	(b)	Explain Parallel Line algorithm.	6	
6.	(a)	What is composite transformation? Explain.	6	
	(b)	Explain various fill styles used for area filling.	6	
		OR		
7.	(a)) What is scaling transformation? Explain.		
	(b)	Explain:		
		(i) Rotation		
		(ii) Translation.	6	
8.	(a)	Explain different components of multimedia.	6	
	(b)	Explain music sequencing and rotation tools.	6	
		OR		
9.	(a)	Explain different file formats of multimedia.	6	
	(p)	Compare multimedia with hypermedia.	6	
10.	(a)	What is SGML ? Explain.	6	
	(b)	Explain:		
		(i) Augmented Reality		
		(ii) Head Mounted Display.	6	
		OR		
11.	(a)	What is run length coding? Explain.	6	
	(b)	Explain VR devices and VR chair.	6	
12.	(a)	Explain motion tweening.	6	
	(b)	What is sketching? Explain its role in animation.	6	
		OR		
13.	(a)	Explain different applications of Animiation.	6	
	(b)	How flash is used in animation? Explain.	6	