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## B.Sc. Part—III (Semester—VI) Examination COMPUTER APPLICATION/INFORMATION TECHNOLOGY (Computer Graphics, Multimedia and Animation)

Time: Three		hree	Hours]	[Maximum Marks: 80
Note :- (1		(1)	ALL questions are compulsory.	
		(2)	Assume suitable data wherever necessary.	
		(3)	Illustrate your answer with the help of neat	sketches.
		(4)	Question 1 carries 8 marks and all other qu	estions carry 12 marks each.
1.	(A)	Fill	in the blanks :	2
		(i)	DDA algorithm is used to generate	
		(ii)	Zip files are files.	
		(iii)	CRT stands for	
		(iv)	Scanner is device.	
	(B)	Cho	ose the correct alternative :	2
		(i)	is used to store data temporarily.	
			(a) Buffer (b) F	lash memory
			(c) RAM (d) A	All of the above
		(ii)	Transformation allow to perform	
			(a) Translation (b) R	Rotation
			(c) Scaling (d) A	All of the above
		(iii)	is not a file format.	
			(a) PNG (b) J	PEG
			(c) BMP (d) C	Graph
		(iv)	GUI stands for	
			(a) Graphical User Interface (b) C	Graphical User Image
			(c) Good User Image (d) (	Geometric User Interface
	(C)	Ans	swer in one sentence each :-	4
		(i)	What is Animation ?	
		(ii)	State the components of multimedia.	
		(iii)	What is Hypertext ?	
		(iv)	Define the term scaling.	
2.	(a)	Enl	ist and explain different input devices used	in graphics system. 6
	(b)	Exp	plain the raster system. State its advantages a	and disadvantages. 6
			OR	
3.	(a)		at are 3D viewing systems? State and expla	ain its applications. 6
	(b)		plain :—	
		(i)	Touch Panels	6
		(11)	Virtual reality system.	6
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4.	(a)	State and explain DAA algorithm.	6
	(D)	What is Curve ? Explain its different attributes.  OR	0
5.	(a)	Write the Bresenham's Line algorithm.	6
J.	(a) (b)		0
	(0)	(i) Grayscale level	
		(ii) Line attributes.	6
6.	(a)	How images can be represented in the form of a matrix ? Explain.	6
0.		What are the area fill attributes ? Explain.	6
	(0)	OR	
7.	(a)	Explain 2D translation transformation using matrix representation.	6
	(b)	What is Pattern-fill ? Explain.	6
8.	(a)	What is Multimedia? Describe the applications of multimedia.	6
	(b)		
		(i) Window WMF	
		(ii) Digital Audio.	6
		OR	
9.	(a)	What is Hypermedia ? Explain.	6
	(b)	Explain :—	
		(i) PDF	
		(ii) GGIF	
		(iii) PNG.	6
10.	(a)	How multimedia data is compressed ? Explain.	6
10.	(b)		
	(0)		
			,
		(ii) 3D sound system.	6
		OR	
11.	(a)	Explain different tools used for virtual reality.	6
	(b)	Explain the MPEG standard used for audio-video compressior.	6
12.	(a)	What is 2D Animation ? Explain.	6
	(b)	Explain motion tweening.	6
		OR	
13.	(a)	What is Animation ? Briefly describe the history of animation.	6
	(b)	How Flash is used for animation ? Explain.	6
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