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## B.C.A. Part—III (Semester—V) Examination COMPUTER GRAPHICS Paper—5ST4

Time	e : T	hree Hours] [Maximum Marks :	60
Note	e :—	(1) ALL questions are compulsory.	
		(2) All questions carry equal marks.	
1.	(A)	Define the following terms:—	
		(1) Graphics	
		(2) Computer graphics	
		(3) Pixel.	6
	(B)	Write down the applications of Computer Graphics.	6
		OR	
2.	(A)	Explain the history of Computer Graphics.	6
	(B)	Explain the types of Computer Graphics.	6
3.	(A)	Explain the concept of 2D Rotation Transformation with example.	6
	(B)	Explain Homogeneous Co-ordinate System.	6
		OR	
4.	(A)	Explain CRT (Cathode Ray Tube) display system.	6
	(B)	Write down the Homogeneous equations matrix form of transformations.	6
5.	(A)	Find the points in DDA Algorithm for a straight line from point (3, 4) to (8, 6).	6
	(B)	Explain the concept of Orthographic Parallel Projection.	6
		OR	
6.	(A)	Explain Cohen Sutherland Line Clipping Algorithm.	6
	(B)	Explain Midpoint Circle Drawing Algorithm.	6
7.	(A)	Explain Morphing and Tweening in detail.	6
	(B)	Write down the types of Animation in detail.	6
		OR	
8.	(A)	Explain how Computer Graphics works with animation.	6
	(B)	Explain Hardware and Software Tools in detail.	6
9.	(A)	Write a program for scaling transformation of a line.	6
	(B)	Write a program to draw the circle.	6
		OR	
10.	(A)	Explain the concept of 3D translation transformation.	6
	(B)	Write a program to draw the Rectangle.	6