5	scheme (-2019) 1710	eb'2c
	3 Hours) Marks:	80
1	1) Question number 1 is compulsory. 2) Attempt any three out of the remaining. 3) Assume suitable data if necessary and justify the assumptions. 4) Figures to the right indicate full marks.	
1 3 C	What is computer graphics and discuss its representative uses Explain traditional animation techniques Describe homogeneous coordinate system Explain point clipping method with suitable example	[5] [5] [5] [5]
P B	Given a triangle ABC with coordinates A (0, 0), B (10, 0), C(0,10). Apply following transformations in sequence i. Translate the triangle by translation parameters (20, 30) units. ii. Rotate the triangle by 90°. Fine the new coordinates of the triangle. Explain Cohen Sutherland line clipping method with suitable example	[10] [10]
Q 3 A B		[10] [10]
Q 4 A B	What is window and viewport. Derive the transformation matrix for a window-to-viewport transformation	[10] [10]
Q A B	What is aliasing effect? Explain antialiasing techniques What is aliasing effect? Explain antialiasing techniques $A(0,0)$ to point $B(8,10)$ using DDA	[10] [10]
Q A I	Derive the 2D transformation matrix for searing was	[10] [10]