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## **Instruction** :



1 Answer the following in short (any Seven)

- (1) Define resolution.
- (2) List advantages and disadvantages of LCD.
- (3) Explain major axis of ellipse.
- (4) State the advantage of winding number method over even odd method.
- (5) Explain slope of a line segment.
- (6) Give matrix to get reflection about the line y = x and
- (7) Give the transformation matrix used to move an object from its original place. Explain with an example.

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- (8) Explain how to reduce an aliasing effect.
- (9) Define pixel.

y = +x.

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[Contd...

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	2	Answer following questions in detail :	14
		(a) Write note on Application of computer graphics.	. 8
		(b) Write note on Graphics standards.	6
		OR	$\sim$
		h	No.
		(b) Compare Vector Vs Raster Graphics.	6
	3	Answer following in detail	14
		(a) Explain BRESENHAM's line drawing algorithm.	8
		OR	
		(a) Explain line geometry.	8
		(b) Explain thick line joints and line caps.	6
		900	
	4	Write notes on : (any two)	14
		(a) Flood Fill Method	
		(b) Even-Odd Inside Test	
		(c) Polygon Pattern Filling.	
	5	Do as directed :	14
	Э	(a) Explain Scaling Transformation.	6
		(a) Explain Scaling Transformation.	0
		(a) Explain Shearing Transformation.	
		(b) Attempt the following with example : (any two)	8
		(i) Derive single matrix for following operation	
		(a) shift image 4-units left	
		(b) make the entire object three times as large.	
		(ii) Give a single matrix to scale an object in	
		x direction to be one half as large and then rotate	
		counter clockwise by 90°.	
	R	(iii) Give a single matrix to translate an object translate	
	11	down 2 units and right 3 units and then rotate	
~		clockwise by $\Pi/4$ .	
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~	Y		
	)		
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