12/06/15

Q.P. Code: 3555

(3 Hours)

[Total Marks: 80

N.I	3.: (1)	Question No. 1 is compulsory.	and the second
	(2)	Attempt any three of remaining five questions.	
	(3)	Assume any suitable data if necessary and clearly state it.	
1.	(a)	What are aliasing and antialiasing? Explain any one antialiasing method.	[05]
	(b)	What are the disadvantages of DDA algorithm?	[05]
	(c)	What is viewing transformation?	[05]
	(d)	Define Shearing and give example.	[05]
2.	(a)	Explain the midpoint circle generating algorithm.	[08]
	(b)	Explain the steps used in rotation of 2-D object about an arbitrary axis and	[12]
		derive the matrices for same.	
3.	(a)	Expain Liang - Barsky line clipping algorithm with suitable example.	[10]
	(b)	Explain Sutherland - Hodgeman polygon clipping algorithm in detail.	[10]
4.	(a)	What are Parallel and Perspective projections and derive the matrix for	[10]
		perspective projection.	
	(b)	Explain the properties of Sezier curves.	[10]
5.	(a)	What is the use of Scan line method and explain all the steps.	[10]
	(b)	Define Koch curve? How do you construct the Koch curve?	[10]
6.		Write a snort note on any four of the following	[20]
	(a)	OpenGL	
	(b)	Area Subdivision method	
	(c)	Composite transformation	
	(d)	Sweep representations	
	(e)	Flood fill algorithm	
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