B.Tech DEGREE EXAMINATION, MAY - 2015

(Examination at the end of Third Year)

COMPUTER SCIENCE AND IT

		Paper - V : Computer Graphics		
Time: 3 Hours			Maximum Marks : 75	
		Answer question No.1 is compulsory	(15)	
		Answer ONE question from each unit	$(4 \times 15 = 60)$	
1)	Wr	ite short notes on :		
	a)	Frame buffer		
	b)	Display file structure		
	c)	Display controllers		
	d)	Segment table		
	e)	Scaling transformations		
		<u>UNIT - I</u>		
2)	Explain the following:			
	a)	Display devices.		
	b)	Vector generation.		
		OR		
3)	a)	Antialiasing.		
	b)	How much time is spent scanning across each row of pixels dur	_	
		system with a resolution of 640×480 and refresh rate of 60 fram	nes per second.	
		<u>UNIT - II</u>		

4) Explain Mid point circle generating algorithm in detail.

OR

Write in detail about inherent memory devices. *5)*

<u>UNIT - III</u>

6) Explain image transformation using segment table.

OR

- 7) a) Polygon filling using Boundary filling method.
 - b) Scan line algorithm.

UNIT - IV

8) Explain Rotation about arbitary point using transformation matrices.

OR

9) Define viewing transformation, Describe Suther land-Hodgeman algorithm for clipping polygons.

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