	Utech
Name:	
Roll No. :	A Grant of Samuely and Explored
Invigilator's Signature :	

CS/M.TECH(MCSE)/SEM-3/PGCS-302/2012-13 2012 MULTIMEDIA AND GRAPHICS

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer all questions.

1.	a)	Explain Bressenham's circle drawing algorith	nm. 6
	b)	Scan convert a line from (0 , 0) to ($ 8$,	– 4) using
		general Bresenham's algorithm.	4
	c)	Write short note on "Generalised clipping".	4
2.	Explain the following :		
	a)	Painter's algorithm	5
	b)	Warnock's algorithm	5
	c)	Multiple clipping.	4
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CS/M.TECH(MCSE)/SEM-3/PGCS-302/2012-13 3. a) What are the advantages of B-splines

- curves?

 b) What are the differences between interpolation and
- c) Give the application of raster scan graphics. 4

5

4. a) Given vertices of Bezier B $_0$ [0, 0], B $_1$ [1, 2], B $_2$ [3, 2], B $_3$ [2, 0], find out on

approximation in spline representation?

- Bezier curve at t (0.15, 0.4, 0.75).
- b) Perform a 45° rotation of triangle
 A (0, 0), B (1, 1), C (5, 2).
- c) Briefly discuss about chromaticity diagram. 4
- 5. Write short notes on any *four* of the following: $4 \times 3\frac{1}{2}$
 - a) JPEG and MPEG file formats
 - b) Animation Technique
 - c) Raster display system architecture
 - d) Fractals and their application
 - e) Graphic plotters.

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