B. Tech Degree VI Semester (Supplementary) Examination November 2006

CS 603 COMPUTER GRAPHICS

(2002 Admissions onwards)

Time: 3 Hours Maximum Marks: 100

(All questions carry **EQUAL** marks)

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ſ.	(a)	Explain the operation of different video display devices.
-	(b)	Write down the Bresenham's Line drawing algorithm.
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II.	(a)	Explain the midpoint circle drawing algorithm.
	(b)	Write notes on (i) Bundled attributes (ii) Antialiasing techniques.
III.	(a)	Brief about Composite Transformation.
	(a) (b)	Explain the Sutherland-Hodgeman polygon clipping algorithm.
	(0)	OR
IV.	(a)	Explain the Cohen-Sutherland line clipping algorithm.
	(b)	Write notes on window to view port coordinate transform.
V.	(a)	Write notes on (i) Quadric surfaces (ii) Blobby objects.
	(b)	Explain about Fractal Geometry methods. OR
VI.	(a)	Explain spline representation.
	(b)	Explain the way of determining self similar fractals.
VII.	(a)	Differentiate object space method and image space method.
	(b)	Explain the area subdivision method for hidden surface removal. OR
VIII.	(a)	Explain the Octree method for visible surface detection.
A 111.	(a) (b)	Write the algorithm and explain the Depth Buffer method.
	(0)	Write the algorithm and explain the Bepar Burlet medicu.
IX.	(a)	Explain the different polygon rendering method.
	(b)	Explain about HSV color model and give the procedure for converting HSV to RGB. OR
X.	(a)	Explain the different dithering techniques.
	(b)	Write notes on:
	` /	(i) Animation
		(ii) Morphing
		(iii) Virtual Reality
		(iv) VRML.