Code No.: 3100

FACULTY OF INFORMATICS

B.E. 3/4 (IT) II - Semester (Main) Examination, May/June, 2011 COMPUTER GRAPHICS (Elective - I)

Time: 3 Hours]

[Max. Marks: 75

Note: Answer all questions from Part - A. Answer any Five questions from Part - B.

	PART – A (Marks: 2	5)
1.	Define aspect ratio.	2
2.	Write about the working principle of digitizer.	3
3.	List the different types of line caps and joins.	2
4.	What is a color look up table ?	2
5	Define world coordinates, device coordinates and normalized coordinates.	3
6.	Write about binary region codes for line clipping.	2
7.	What are the different types of icons?	2
8.	State the importance of editing structures.	3
9.	Distinguish between interpolation and approximation splines.	3
10.	Define projection operation.	3
11.	PART – B (50 Marks) State and illustrate Bresenham's line drawing algorithm for a line with end points (20, 10) and (30, 18) with a slope of 0.2.	s)
12.	Explain Roster methods for transformations.	
13.	With necessary equations and figures explain in detail about window-to-viewport coordinate transformations.	
14.	Write about hierarchical modeling with structures.	
15.	In detail explain basic 2D-transformations.	
16.	Explain the working of Z-buffer method.	
17.	Write about any two of the following: (a) Character generation. (b) Logical classification in input devices	,

BSP trees.

(c)