



Code No.: 5294/M

FACULTY OF INFORMATICS

B.E. 3/4 (IT) II Semester (Main) Examination, May/June 2012 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	25 Marks
1.	Define resolution.	2
2.	List the different types of flat panel displays.	. 2
3.	Write about character attributes.	2
4.	Define reflection and shear transformation with their matrices.	3
5.	Draw the 2-D viewing transformation pipeline.	2
6.	Write any four 2-D viewing functions.	3
7.	Define three types of input modes.	2
8.	List the issues in structuring a user dialogue.	3
9.	What is a polygon mesh?	3
10.	State the parametric continuity conditions.	. 3
	PART-B	50 Marks
11.	Write and illustrate Midpoint circle algorithm with a radius = 10.	
12.	How are transformations between co-ordinate systems done?	



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- 13. How is Weiler-Atherton polygon clipping algorithm different from Sutherland Hodgeman clipping algorithm?
- 14. Discuss interactive picture construction techniques.
- 15. Explain perspective projection operation.
- 16. Explain Depth sorting method.
- 17. Write about any two of the following:
 - a) Basic video-controller refresh operations.
 - b) Computational efficiency in composite transformations.
 - c) Phong shading.