Madras University

MCA COMPUTER GRAPHICS

NOVEMBER 2010

TIME:THREE HOURS **MAXIMUM:75 MARKS**

PART A(10*1=10 MARKS)

ANSWER ALL QUESTIONS
ALL QUESTIONS CARRY EQUAL MARKS
1.What is refresh CRT?
2.What do you mean by flat panel display?
3.What is scaling?
4.What do you mean by affine transformation?
5.What is raster scan display?
6.What are halftones?
7.Define 'window' and 'viewport'?
8.What is a segment?
9.What are the applications of splines?
10.What is nonparametric representation?

PART B(5*5=25 MARKS)

ANSWER ANY FIVE QUESTION
ALL QUESTIONS CARRY EQUAL MARKS

11.Write a short note on flat panel displays.
12.Discuss the applications of computer graphics
13.Explain any three two dimensional transformation.
14.What do you mean by axonometric orthographic projections?Discuss.
15.Write short note on scan converting polygons.
16.Explain window to viewport coordinate transformations.
17.Write a short note on BEZIER curves.

PART C(4*10=40 MARKS)

ANSWER ANY FOUR QUESTION

ALL QUESTIONS CARRY EQUAL MARKS

18. Discuss on the following:
(a)Input devices
(b) Types of printers.
19. Write a short note on 3D transformations.
20.Explain any one circle drawing algorithm with an example.
21.Discuss on the following
(a) Antialiasing
(b) Frame buffer
(c) Z-buffer
22.Discuss Sutherland- cohen line clipping algorithm.
23.Write short notes on the following
(a) B-Spline curves
(b) Parabolic blended curves