LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc., B.C.A. DEGREE EXAMINATION – **COMPUTER SC.&COMP. APP.**

FIFTH SEMESTER – APRIL 2010

CS 5400 / CA 5400 - COMPUTER GRAPHICS

Date & Time: 29/04/2010 / 9:00 - 12:00 Dept. No. | | Max. : 100 Marks

PART-A

(10 x 2 = 20)

Answer all the questions

1) What is Data Glove?
2) What are display processors?
3) What are the basic attributes of a character?
4) What is viewing transformation?
5) Define the term: Clipping.
6) Define Shear.
7) What is reflection?
8) Define Bitmap.
9) What is image space method?
10) What is Projection?

PART-B

(5 x 8 = 40)

Answer all the questions

11) a) Explain the working principles of DVST .

(OR)

b) Write short notes on CRT monitor.

12) a) Explain about the Line Attributes.

(OR)

b) Write about 2D transformation in

i) Scaling ii) General Fixed Point Scaling.

13) a) Explain the Sutherland-Hodgeman polygon clipping method.

(OR)

b) Give a brief note on window to view port transformation.

14) a) Write a note on Perspective projection.

(OR)

b) Explain briefly about 3-D rotation.

15) a) Explain about the A-buffer method.

(OR)

b) Explain about the Back-Face detection method.

PART-C

(2 x 20 = 40)

Answer any TWO:

16) a) Discuss in detail about Mid Point circle algorithm for drawing lines.

b) Explain the basic 2-D transformation for rotation.

17) a) Explain the various 3-D display methods.

b) Discuss in detail about the Parallel projection.

18) a) Explain Depth-Buffer method.

b) Explain in detail about the Bresenham's Line Drawing Algorithm with an example.

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