LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – **COMPUTER SCIENCE**

FIFTH SEMESTER – **APRIL 2016**

CS 5400 - COMPUTER GRAPHICS

Date: 29-04-2016   Dept. No.   Max. : 100 Marks
Time: 01:00-04:00

PART A

Answer all questions   (10 x 2 = 20 marks)

1. Define the term digitizer

2. What is the graphic software standards used?

3. What is shift vector?

4. Define the term transformation.

5. Define the term viewport.

6. Write notes on point clipping?

7. What is called surface rendering?

8. Define scaling?

9. List the applications of graphics.

10. List he two operations performed in perspective transformations.

PART B

Answer all questions   (5 x 8 = 40 marks)

11. (a). Explain in short about non-impact printer.
           or
    (b). Explain midpoint circle generation algorithm.

12. (a). Write in brief two dimensional composite scaling.
           or
    (b). How to represent two dimensional matrix representations?

13. (a). Explain view port translation in brief?
           or
    (b). Explain windowing transformation?

14. (a). Give an account of three dimensional basic transformations?
           or
    (b) Write about the reflection and shear in three dimensional drawings?

15. (a). Describe Z buffer method?
           or
    (b). Write notes on parallel projection transformations?

PART C

16. (a). Explain in detail about the output devices.

    (b).discuss in detail about character attributes of output primitives

17. (a). Write the procedure of Cohen-Sutherland line clipping method.

    (b).Describe in general about three dimensional techniques

18. (a). Write in detail about the two types of projections used in 3D viewing.

    (b). Briefly explain the interactive input devices?

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