LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – **COMPUTER APPLICATIONS**

THIRD SEMESTER – **NOVEMBER 2017**

CA 3875 – COMPUTER GRAPHICS AND MULTIMEDIA APPLICATIONS

Date: 13-11-2017 Dept. No. Max. : 100 Marks

Time: 09:00-12:00

Part-A

Answer ALL Questions **(10 * 2= 20)**

1. Define Pixel.
2. Comment on GLUT.
3. Write any two-dimensional viewing functions.
4. What is clipping?
5. Define Spline curve
6. What is the use of color gamut?
7. Define Multimedia.
8. What is meant by image segmentation?
9. Write the features of MPEG format.
10. What is meant by Plugins?

Part-B

Answer ALL Questions **(5 * 8= 40)**

11. a) Explain CRT monitor in detail.

(or)

b) Explain Mid-point circle generation algorithm in detail.

12. a) Write short notes on Reflection.

(or)

b) Explain the Bezier curve equations in detail.

13. a) Explain window to viewport transformation in detail.

(or)

b) Explain Depth Buffer method in detail.

14. a) Write short notes on Dithering and Antialiasing.

(or)

b) Write short notes on MIDI.

15. a) Write short notes on Video conferencing.

(or)

b) Discuss Multimedia applications in detail.

Part-C

Answer ALL Questions **(2 * 20= 40)**

16. a) Discuss DDA line drawing in detail.

    b) Discuss 2D transformations in detail.

17. a) Write short notes on CMY and HSV color models.

    b) Explain the various software audio players.

18. a) Write short notes on image compression methods.

    b) Explain about Interactive input methods in detail.

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