



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

THIRD SEMESTER – NOVEMBER 2016

CA 3875 - COMPUTER GRAPHICS AND MULTIMEDIA APPLICATIONS

Date: 14-11-2016
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

Part-A

Answer ALL Questions

(10 * 2= 20)

1. What is the use of shadow mask methods?
2. What is an Open Inventor?
3. What is a region code?
4. Define clipping window
5. What is the Bezier curve and surfaces?
6. Mention the features a color Gamut.
7. What is Hyperlink?
8. What do you mean by Hot spot in Multimedia
9. Comment on PNG.
10. Define Hypermedia.

Part-B

Answer ALL Questions

(5 * 8= 40)

11. a) Write short notes on Flat panel display devices.

(or)

- b) Write an OpenGL program to display POINTS and LINE primitives.

12. a) Explain the steps for mapping the clipping window into a Normalized viewport.

(or)

- b) Explain the methods for specifying Spline.

13. a) Explain the Parallel and Perspective projections in detail.

(or)

- b) Write short notes on Morphing with key frame system.

14. a) Describe the characteristics of Multimedia.

(or)

- b) What are the various Graphic File formats in multimedia? Explain it.

15. a) Explain in detail about the internet protocol Television.

(or)

- b) Distinguish between Interactive Video and Video on Demand

Part- C

Answer any Two Questions

(2 * 20= 40)

16. a) Discuss DDA line algorithm in detail

b) Explain the basic Two dimensional transformations in detail.

17. a) Explain RGB and YIQ color models in detail.

b) Describe the Components of Multimedia with examples

18. a) Elaborate the Video Nomenclature usages while handling multimedia applications

b) Explain OpenGL three dimensional viewing functions.
