



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

THIRD SEMESTER – NOVEMBER 2015

CA 3875 - COMPUTER GRAPHICS AND MULTIMEDIA APPLICATIONS

Date : 11/11/2015
Time : 09:00-12:00

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 Open Inventor?
3. What is region code?
4. Define clipping window.
5. Compare Parallel and Perspective projection.
6. Mention the features color Gamut.
7. Comment on MPEG.
8. Distinguish between image and graphics
9. What is Hypertext Abstract Machine?
10. List the types of video

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 LINE primitives.
12. a) Explain the steps for mapping the clipping window into Normalized viewport.
(or)
b) Explain the methods for specifying Spline.
13. a) Write any four OpenGL functions used for 3D representation.
(or)
b) Write short notes on Morphing.
14. a) What are the steps for creating Multimedia presentation? Explain it.
(or)
b) Explain how Antialiasing and Dithering can improve image quality.
15. a) Write short notes on Video conferencing.
(or)
b) Write short notes on VRML.

Part- C

Answer any Two Questions

(2 * 20= 40)

16. a) Discuss DDA line algorithm in detail.
b) Explain Cohen-Sutherland line clipping algorithm in detail.
17. a) Explain RGB and YIQ color models in detail.
b) Explain in brief the major characteristics of DVD video.
18. a) Discuss Virtual reality in detail.
b) Explain OpenGL three dimensional viewing functions.
