



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

THIRD SEMESTER – APRIL 2018

16PCA3ID01- COMPUTER GRAPHICS AND MULTIMEDIA

Date: 21-04-2018
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

Part-A

Answer ALL Questions

(10 * 2 = 20)

1. Define Pixel.
2. What do you mean by GLUT?
3. What is viewing transformation?
4. What is clipping?
5. Define Spline curve
6. What is Depth cueing?
7. What is flash video?
8. Define Hyper Media
9. Write all the features of MPEG?
10. What is PNG?

Part-B

Answer ALL Questions

(5 * 8 = 40)

11. a) Explain the working principles of CRT monitors in detail.
(or)
b) Write an OpenGL functions for the output primitives
i) POLYGON ii) LINE iii) QUADS
12. a) write short notes on other 2D transformations
(or)
b) Explain the Bezier curve equations in detail.
13. a) Explain OpenGL three dimensional viewing functions.
(or)
b) Write short notes on Morphing.
14. a) Write short notes on different color patterns.
(or)
b) Write short notes on applications of Geometrical design.
15. a) Explain the principles of Layout in Multimedia
(or)
b) Write short notes on all the basic design applications.

Part-C

Answer ALL Questions

(2 * 20= 40)

16. a) Discuss DDA line drawing algorithm in detail.
b) Discuss Basic two-dimensional transformations in detail
17. a) Discuss Back face detection method in detail.
b) Write short notes on CMY and HSV color models.
18. b) Explain the basic characteristics of Multimedia Systems.
b) Discuss all the principles of Visual Design.

\$\$\$\$\$\$\$\$