



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

THIRD SEMESTER – APRIL 2017

CA 3875- COMPUTER GRAPHICS AND MULTIMEDIA APPLICATIONS

Date: 24-04-2017
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

Part – A

Answer ALL Questions

10 * 2 = 20

1. What is resolution?
2. What are the input devices?
3. Define spline surface.
4. What is clipping window?
5. What is Depth cueing?
6. Compare parallel projection from perspective projection.
7. Define Multimedia.
8. What is Decompression?
9. Comment on VRML.
10. What are the image file formats?

Part – B

Answer ALL Questions

5 * 8 = 40

11. a) Write OpenGL specification for the following
 - i) POINTS
 - ii) POLYGON
- b) Explain the concept of line drawing using DDA algorithm.
12. a) Write short notes on Spline specification.
 - b) Illustrate the general procedure for mapping the clipping window into a normalized viewport.
13. a) Explain XYZ color model in detail.

or

 - b) Explain the various development stages for animation.
14. a) Write short notes on Video conferencing.

or

 - b) Explain various types of sound files.
15. a) Write short notes on Multimedia databases.

or

 - b) Explain in detail about various technique used in Composition.

Part – C

Answer any TWO Questions

2 * 20= 40

16. a) Discuss Raster scan and Random scan system in detail.
b) Explain basic Transformation in detail.
17. a) Discuss the YIQ and CMY color model.
b) Write the OpenGL functions for three dimension viewing
18. a) Explain in detail about Lossless Compression.
b) Write any two OpenGL Interactive input device functions.

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