# LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



## M.C.A. DEGREE EXAMINATION - COMPUTER APPLICATIONS

## THIRD SEMESTER - NOVEMBER 2018

#### 16PCA3ID01 - COMPUTER GRAPHICS AND MULTIMEDIA

APPLIANCE OF THE PROPERTY OF T				
Date: 02-11-2018 Time: 09:00-12:00	Dept. No.		Max.: 100 Marks	
Answer ALL the questions	PART – A		10 x 2= 20	
1) What is raster graphics	?			
2) Define resolution and aspect ratio.				
3) Answer the following:				
i) Rigid body transformations are and			·	
ii) Cohen Suther	land line clipping uses	8 regions. <b>True</b>	e / False	
4) Differentiate interpolat	tion and approximation	splines.		
5) Mention the visible surface detection methods.				
6) Name the steps in animation sequence.				
Write notes on the fol	llowing:			
7) Hue.				
8) Emblem.				
9) Primary Colours.				
10) Typography.				
	_		$5 \times 8 = 40$ be plotted to draw a line starting at pix	tel
b) Describe Bresenhan 12) a). Elucidate Liang Ba	(OR) n's line drawing algorit rsky line clipping algor (OR)	hm.	11.	
b) Illustrate RGB and 14) a) Explain different typ b) Describe chromatic 15) a) Explain the influence	s for displaying a 3D in (OR) YIQ colour models. befaces with example. (OR) Value, Hue and Satura	tion.	plane.	

b) Elucidate vertical and horizontal spacing.

#### PART - C

# **Answer ANY TWO questions**

 $2 \times 20 = 40$ 

- 16) a) Explain LCDs with a neat diagram.
  - b) Elucidate Nicholl-Lee-Nicholl Line Clipping. (10)
- 17) a) Explain the polygon rendering methods. (10)
  - b) Describe back face detection and depth buffer method. (10)
- 18) a) Elucidate principles of design with suitable examples. (10)
  - b). Poster Design is important in creating a social awareness campaign? Justify. (10)

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