

**School:** School of Engineering and Technology

Program/s: BCA

Year: 3<sup>rd</sup> Semester: 5<sup>th</sup>

**Examination:** End Semester Examination

**Examination year:** December - 2021

Course Code: CA314 Course Name: Computer Graphics & Image Processing

**Date:** 07/12/2021

Total Marks: 40

**Time:** 2:30 pm to 4:30 pm **Total Pages:** 1

## Instructions:

→ Write each answer on a new page.

	Þ		Marks	COs*	BTL#
Q.1	Do as directed.			5	in a
	[a]	Full form of LCD.	[1]	CO1	1
	[b]	Differentiate between Raster Scan Display and Random Scan Display.  OR	[2]	CO1	4
		Differentiate between Bitmapped Fonts and Outline Fonts.		CO2	4
	[c]	Write a short note on working of CRT with proper diagram.	[7]	CO1	1,2
Q.2	Do as directed.				
	[a]	Define aspect ratio.	[1]	CO1	1
	[b]	Differentiate between Image Sampling and Image Quantization OR	[2]	CO6	4
		Differentiate between Image Smoothing and Image Sharpening		CO6	4
·	[c]	Write a short note human visual system.	[7]	CO5	1,2
Q.3	Attempt any two [2 X 5].		. 1		·
	[a]	Write a short note on Flat Panel Displays.	[5]	CO1	1,2
	[b]	Write a short note on Gray Level Transformations.	[5]	CO6	2,3
	[c]	Write a short note on Boundary fill algorithm with limitations.	[5]	CO3	2,3,4
Q.4	Wri	te a short note on Geometric Transformations with matrix representation.	[10]	CO4	1,2,
и <sub></sub> с 8. э		OR I the points of Line having endpoints $(x1,y1) = (30,42)$ and $(x2,y2) = (37,47)$ ng Bresenham's algorithm).		CO4	2,3,5

\*\*\*\*\*\*\*\*\*\*\*\*End of Question Paper\*\*\*\*\*\*\*\*