## C. U. SHAH UNIVERSITY Summer Examination-2022

**Subject Name : Computer Graphics** 

Subject Code: 4TE06CGR1 Branch: B.Tech (CE)

Semester: 6 Date: 02/05/2022 Time: 02:30 To 05:30 Marks: 70

## **Instructions:**

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1		Attempt the following questions:	(14)
	a)	Write full form of GUI	1
	b)	Write full form of CAD	1
	c)	What is Pixel?	1
	d)	Enlist any two graphics input devices.	1
	e)	Enlist any two graphics output devices.	1
		Write full form of BIOS.	1
	g)	What is Computer Graphics?	1
		Write full form of DDA.	1
	i)	State True or False.	1
		"Joystick is Input Device"	
	j)	CRT stands For	1
		What is Random Scan?	1
	1)	What is Raster Scan?	1
	m)	Which function is used to check the color of a pixel?	1
		a) set pixel	
		b) get pixel	
		c) inquiry function	
		d) status function	
	n)	What is Illumination?	1
Attei	npt any	four questions from Q-2 to Q-8	
Q-2		Attempt all questions	(14)
	(A)	Explain any five applications of graphics in various fields.	10
	(B)	Write a short note on Mouse	04
Q-3		Attempt all questions	(14)
	(A)	Differentiate between Raster Scan and Random Scan	7
	(B)	Explain DDA algorithm in brief.	7



Q-4		Attempt all questions	(14)
	(A)	Explain Bresenham's Line Drawing Algorithm in brief.	7
	(B)	Write a brief note on "CRT"	7
Q-5		Attempt all questions	(14)
	(A)	Enlist and Explain any two types of printers.	7
	(B)	Enlist and Explain types of scanners.	7
Q-6		Attempt all questions	(14)
	(A)	Explain Bresenham's Circle Drawing Algorithm in brief.	7
	(B)	Explain 2D Transformation with necessary Diagram.	7
Q-7		Attempt all questions	(14)
	(A)	Explain HSV color model and CMY Color model.	7
	(B)	Explain Window Port and View Port in brief.	7
Q-8		Attempt all questions	(14)
	(A)	What is refresh rate? How does refresh rate affects picture quality?	7
	(D)	Explain.	7
	(B)	Explain illumination Model in brief.	/

