SUMMER-2024	
Exam Seat No.:	
Academic Year:2023-2024	Semester:IV
Class:SY	Program:B.Tech
Branch Code:INT	Pattern:2022
Name of Course:Computer Graphics	Course Code:INT222014
Max. Marks:60	Duration:2.30 Hrs.

Instructions: Candidates should read carefully the instructions printed on the Question Paper
and on the cover page of the Answer Book, which is provided for their use.

    1. This question paper contains _____ page(s).
    2. Answer to each new question is to be started on a new page.
    3. Assume suitable data wherever required, but justify it.
    4. Draw the neat labelled diagrams, wherever necessary.
    5. The last columns indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.

    Question No. 1 Attempt following Question

1a)   Enlist Character Generation methods with example.   (6)   CO1

    Question No. 2 Attempt following Question

2a)   Brief Rotation and Scaling in 2D transformation.   (6)   CO4

    Question No. 3 Attempt following Question

3a)   Discuss Scan Line algorithm.   (5)   CO2

OR

3b)   Write the note on Clipping in Computer Graphics.   (5)   CO2

3c)   Explain Warnock algorithm.   (5)   CO2

OR

3d)   List out Applications of clipping.   (5)   CO2

3e)   Explain Sutherland-Hodgeman Polygon Clipping.   (6)   CO2

OR

3f)   Explain Weiler-Atherton Polygon Clipping.   (6)   CO2

    Question No. 4 Attempt following Question

4a)   Define Types of Color Modes.   (5)   CO3

<div align="center">**OR**</div>

4b)	Discuss Gouraud Shading in computer graphics.	(5)	CO3

4c)	List the uses of Color Modes.	(5)	CO3

<div align="center">**OR**</div>

4d)	List out advantages and disadvantages of Gouraud Shading.	(5)	CO3

4e)	List out the Limitations of Color Modes.	(6)	CO3

<div align="center">**OR**</div>

4f)	How to Design Phong Shading in Computer Graphics.	(6)	CO3

Question No. 5 Attempt following Question

5a)	Explain Explicit curves with mathematical question.	(5)	CO5

<div align="center">**OR**</div>

5b)	Explain the uses of Fractals in different areas.	(5)	CO5

5c)	List out Properties of Bezier Curve.	(5)	CO5

<div align="center">**OR**</div>

5d)	Discuss Morphing Animation Function.	(5)	CO5

5e)	List and explain any five Principles of Animation.	(6)	CO5

<div align="center">**OR**</div>

5f)	Discuss Zooming Animation Function.	(6)	CO5

<div align="center">**XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX**</div>