R18 Regulation *Subject code: 2E7EF*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech. VII Semester Supplementary Examinations, May 2025

COMPUTER GRAPHICS

(CSE)

Maximum Marks: 70 Date: 29.05.2025 Duration: 3 hours

Note: 1.This question paper contains two parts A and B.
2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

	All the following questions carry equal marks 10X2M=20 Marks	Marks	CO	BTL
1	Define computer Graphics and Applications?	2M	1	L1
2	Differentiate between Random And Raster Scanned Displays ?	2M	1	L1
3	What is the Transformation?	2M	2	L1
4	Define scaling?	2M	2	L1
5	What are the various representation schemes used in three dimensional objects?	2M	3	L1
6	What is the use of control chart?	2M	3	L1
7	What are the types of reflection of incident light?	2M	4	L1
8	Differentiate flat and smooth shading ?	2M	4	L1
9	What is a Parallel projection?	2M	5	L1
10	Give some examples for the computer animation systems?	2M	5	L1

Part-B

	Answer All the following questions. (5X10M=50Marks)	Marks	CO	BTL
11	Explain in detail about video display devices?	10M	1	L2
	OR			
12	Explain about Scan-line Polygon fill algorithm and Boundary-fill algorithms?	10M	1	L2
13	Explain the following basic two dimensional geometric Translation, scaling, rotation, reflection transformations.	10M	2	L2
	OR			
14	Write about Cohen-Sutherland line clipping algorithm ?	10M	2	L2
15	Explain the following basic three-dimensional object transformation?	10M	3	L2
	OR			
16	Explain in detail the Polygon surfaces?	10M	3	L2
17	Explain about the area sub-division and octree methods?	10M	4	L2
	OR			
18	Explain the Phong shading methods?	10M	4	L2
19	Explain about the key frame animation?	10M	5	L2
	OR			
20	Explain about the motion specifications?	10M	5	L2