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 2026

COMPUTER GRAPHICS

(CSE)

Maximum Marks: 70 Date: 07.05.2026 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	Write about different types of matrix modes?	2M	1	L1
2	What are the output primitives?	2M	1	L1
3	Define clipping.	2M	2	L1
4	Define viewing transformation.	2M	2	L1
5	Differentiate between interpolation spline and approximation spline?	2M	3	L1
6	What is view-plane normal vector?	2M	3	L1
7	What are the two common sources of textures?	2M	4	L1
8	Define complementary colors.	2M	4	L1
9	What is a Particle system?	2M	5	L1
10	Give some examples for computer graphics standards.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain about Mid point ellipse drawing algorithms.	10M	1	L2
	OR			
12	Explain about boundary-fill and flood fill algorithms.	10M	1	L2
13	Explain about window to viewport coordinate transformation and viewing functions.	10M	2	L2
	OR			
14	Explain about matrix representations and homogeneous coordinates.	10M	2	L2
15	Discuss about Bezier and B-Splinesurfaces.	10M	3	L2
	OR			
16	Discuss about Hermit Curve generation.	10M	3	L2
17	Illumination Models and Surface rendering Methods.	10M	4	L2
	OR			
18	Classification of visible surface detection algorithm.	10M	4	L2

19	Explain about the key frame systems.	10M	5	L2
	OR			
20	Explain about the motion specifications.	10M	5	L2