R18 Regulation *Subject code: 2E7EF*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, October 2026

COMPUTER GRAPHICS

(CSE)

Maximum Marks: 70 Date: 28.10.2026 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	Represent a Graphics system along with its major elements.	2M	1	L1
2	Explain the necessary Specifications required to define a camera.	2M	1	L1
3	Define rotation?	2M	2	L1
4	Distinguish between window port & view port.	2M	2	L1
5	What are the different ways of specifying spline curve?	2M	3	L1
6	Explain the important properties of Bezier Curve.	2M	3	L1
7	Define visible surface detection methods.	2M	4	L1
8	Define image space method.	2M	4	L1
9	What is Computer Animation?	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 Line Drawing Algorithms.	10M	1	L2
	OR			
12	Explain about Video display devices.	10M	1	L2
13	Write about Cohen-Sutherland line clipping algorithm with an example?	10M	2	L2
	OR			
14	Explain about viewing pipeline, viewing coordinate reference frame.	10M	2	L2
15	Explain about the quadric surfaces.	10M	3	L2
	OR			
16	Explain the Spline representation.	10M	3	L2
17	Explain depth sorting method.	10M	4	L2
	OR			
18	Explain the BSP tree method for visiblesurface detection.	10M	4	L2
19	Explain about the key frame systems.	10M	5	L2
	OR			
20	Explain about the motion specifications.	10M	5	L2