



R18 Regulation *Subject code:2E7EF*
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
 (Autonomous, Accredited by NAAC with 'A+' Grade)
B.Tech VII Semester Supplementary Examinations, November 2023

COMPUTER GRAPHICS
(CSE)

Maximum Marks: 70

Date:12.12.2023 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 which carries 10M.
 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)

Bloom

1	Define computer Graphics and Applications.		Tx
2	Write the necessary Specifications required to define a camera?		L1
3	What is reflection?		L2
4	Define viewing transformation.		L1
5	Define Quadric surfaces.		L1
6	What is the use of control points?		L1
7	What are the types of reflection of incident light?		L1
8	Define complementary colors.		L1
9	What is Computer Animation?		L1
10	Define frame.		L1

Part-B

Answer All the following questions.

(5X10M=50Marks)

11	Explain in detail video display devices? [10]		L1
	OR		
12	Explain about Scan-line Polygon filling and boundary-fill and flood fill algorithms. [10]		L1
13	Write about Cohen-Sutherland line clipping algorithm with an example? [10]		L2
	OR		
14	Explain about viewing pipeline, viewing coordinate reference frame. [10]		L1
15	Discuss about Bezier and B-Splinesurfaces. [10]		L1
	OR		
16	Discuss about Hermit Curve generation. [10]		L2
17	Illumination Models and Surface rendering Methods. [10]		L2
	OR		
18	Explain the polygon rendering methods. [10]		L2
19	Discuss the Advantages of real time animation over frame-by-frame animation. [10]		L1
	OR		
20	Discuss about raster animations. [10]		L1