



**B.Tech VII Semester Supplementary Examinations, December 2024**

**Computer Graphics  
(CSE)**

**Maximum Marks: 70**

Date:30.12.2024

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		CO	Bloom Tx
1	Define computer Graphics and Applications?	1	L1
2	Distinguish between Random And Raster Scand Display?	1	L1
3	What is the Transformation?	2	L1
4	Define scaling?	2	L1
5	What are the various representation schemes used in three dimensional objects?	3	L1
6	What is the use of control points?	3	L1
7	What are the types of reflection of incident light?	4	L1
8	Differentiate flat and smooth shading?	4	L1
9	Define geometric fractal?	5	L1
10	What is random fractal?	5	L1

**Part-B**

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	Explain in detail video display devices? [10M]	1	L2
	OR		
12	Explain about Scan-line Polygon filling and boundary-fill and flood fill algorithms? [10M]	1	L2
13	Write about Cohen-Sutherland line clipping algorithm with an example? [10M]	2	L2
	OR		
14	Write about Cyrus beck line clipping algorithm ? [10M]	2	L2
15	Explain about the quadric surfaces? [10M]	3	L2
	OR		
16	Explain the Spline representation? [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