

Code: CS6T3

**III B.Tech - II Semester – Regular/Supplementary Examinations
AUGUST 2021**

**COMPUTER GRAPHICS
(COMPUTER SCIENCE & ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

PART – A

Answer *all* the questions. All questions carry equal marks

11x 2 = 22 M

1.

- a) List the properties of video display devices.
- b) What specifications are necessary for the camera?
- c) Which types of font rendering are supported by GLUT?
- d) What is the purpose of a terminal server?
- e) Define scan line interpolation.
- f) What are the procedures for using vertex arrays?
- g) What are parallel views?
- h) What is Projection reference point?
- i) Define scanlines.
- j) What is meant by odd-even rule?
- k) What are the some of the issues to be addressed to display anything?

PART – B

Answer any *THREE* questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) Enlist the applications of computer graphics and explain. 6 M

- b) What are OpenGL line and point functions? Illustrate about the line and point attribute functions. 10 M

3. a) What are the different modes to obtain the measure of a device? 8 M

- b) Write a program to draw a square by pressing the left button and to terminate the program by pressing the right button. 8 M

4. Derive the transformations for rotation, translation, and scaling. 16 M

5. Describe in detail about the perspective projections with necessary diagrams. 16 M

6. Consider an example and apply Cohen-Sutherland line clipping algorithm. Explain the steps. 16 M