



TONTADARYA COLLEGE OF ENGINEERING

(Department of CSE)

Internal Assessment –III (18CS62)

Subject : CG
Semester : 6

Date :14.07.2021
Time :12.00 to 01.30pm

Answer following questions choosing one question from each part

Total Marks: 50

PART-A

CO

- Q1 1. Explain OpenGL three dimensional viewing functions 12M (CO5)
i. gluLookAt ii. glOrtho iii. glPerspective iv. glFrustum.
2. Explain example Keyboard, Mouse events recognized by GLUT. 13M (CO5)

OR

- Q2 1. How Pop up Menu are created by GLUT? Illustrate with example. 12M (CO5)
2. Explain the circle generation algorithms (Bresenham's). Solve the problem with radius $r=8$. 13M (CO5)

PART-B

- Q3 1. Explain with example cohen-sutherland line clipping algorithm. 13M (CO5)
2. Explain with example Sutherland-Hodgeman polygon clipping algorithm. 12M (CO5)

OR

- Q4 1. Explain Z buffer or Depth buffer algorithm for visible surface detection. 12M (CO5)
Explain with example how to Building Interactive Models 13M (CO5)
2. What are the various classes of logical input devices? With suitable diagrams, Explain in detail.

Course Outcome	Complete Title
CO5	Decide suitable hardware and software for developing graphics packages using opengl .