Quiz

Time-30 min   **Roll No. -**   **Marks-22.5**

1. Course No-   Course Title-   0.5

2. Define scan conversion? Mention at least two important applications of computer graphics.   02

3. Write a function in opengl to draw a triangle inside a rectangle.   03

4. DDA stands for _____.   01

5. A line connecting the points (1, 1) and (5, 3) is to be drawn, using DDA algorithm. Find the value of x and y increments.   01

6. Why Bresenham's Line algorithm is better than DDA Algorithm?   01

7. The following coordinate pair represent the two end point of a line. Is it possible to draw line for each coordinate pair using Bresenham's line algorithm? If your answer is "Yes", write the proper way to do it.   03

   a) A(3,-2), B(23, -12)
   b) A(5,6), B(15, 20)
   c) A(3,3), B(13, 8)

8. Write down the expected location for **glut.h** and **glut32.dll**.   01

9. Write down the parameters and function of the following opengl method: 03

   a) glutDisplayFunc()
   b) glutCreateWindow()
   c) glFlush()

10. How midpoint is used in Mid-Point circle algorithm? Briefly explain with appropriate figure.   02

11. Write down the condition to be checked to fill the current seed for both filling algorithm. How will you select one of these algorithm to fill a region for a specific scenario?   02

12. Draw a Koch Curve of order 3. Show each successive generation. Also fill in the table below.   03

Iteration	0	1	2	3
Number of Segments				