ITM (SLS) BARODA UNIVERSITY
SCHOOL OF COMPUTER SCIENCE, ENGINEERING AND TECHNOLOGY (SOCSET)
BTECH CSE/CSE-IT EVEN SEMESTER 2023-24
REMEDIAL EXAM

SEMESTER: 2nd   **COURSE-CODE**: C2210C3   **COURSE-NAME: Computer Graphics**
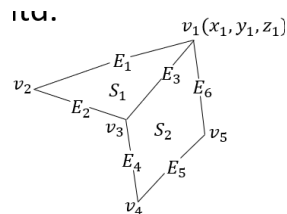
DATE: 01/05/2024   **MARKS: 30**   **TIME: 10:30am - 12pm**

Attempt any 6 Questions. Each question carries 5 marks.

1. Explain fixed point scaling
2. Explain B-spline curve
3. Write cohen-sutherland algorithm for polygon clipping
4. Consider a line segment defined by endpoints A(2,1) & B(4,3). Clip the given line against the clipping window defined by:(xwmin,ywmax)= (1,2) & (xwmax,ywmax) = (3,4). Use liang-barsky algorithm to clip the line
5. Explain Polygon meshes using given example

6. Explain following terms:
   a. Convex Hull
   b. Clipping Window
   c. Polygon Table
   d. Control Graph
   e. Interpolation spline
7. Explain window to viewport coordinates
8. Explain reflection about x=y direction with an example
9. Explain composite transformation
10. Using Cohen-Sutherland clipping algorithm, clip the line having points A(-1,5) & B(3,8). The clipping window consists of (-3,1) at lower left & (2,6) at upper right.