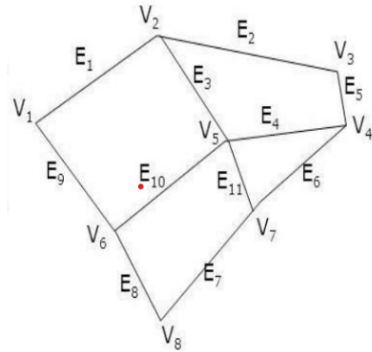


- i) List the 3-d display models & explain any 3 of them.

- ii) Write the liang-barsky line clipping algorithm
 iii) What is shearing? Explain shearing in x-direction
 iv) Explain pivot point rotation.
- Q3. Answer any Two (out of Four) [6]

- i) Explain Sutherland-Hodgeman polygon clipping algorithm.
 ii) Explain Parametric continuity Conditions.
 iii) What is transformation? Explain 2-d translation.
 iv) Explain the polygon table with the polygon shown below.



- Q4. Answer any Two (out of Four) [6]

- i) Explain approximation continuity Conditions
 ii) Explain window to viewport coordinate transformation
 iii) Explain Hermite Spline interpolation.
 iv) 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.

- Q5. Answer any Two (out of Four) [6]

- i) What do you understand by Composite Transformations?
 ii) Consider a rectangle with vertices A(0,0), B(3,0), C(3,2), D(0,2). Translate it 2 units to the right & 1 unit up and then Shear the translated rectangle horizontally with a shearing factor of 0.5.
 iii) Explain the parallel and perspective projection.
 iv) Explain Viewing Pipeline.

-X-X-X-X-X-X-