

SECTION-B

2. Use the midpoint method to derive decision parameter that can be used to generate straight line segments with any slope.
3. What is the role of homogeneous coordinates in 2-D transformations? Explain with the help of an example.
4. Find the equation of the Bezier curve which passes through (0,0) and (-4,2) and controlled through (14,10) and (4,0).
5. Give comparison between Flood fill and Scan conversion methods.
6. Application programs often use floating point numbers to define pictures, whereas the display uses integers. Should the conversion from floating point to integer format be done before or after clipping? How?

SECTION-C

7. Explain Liang-Barsky 2D line clipping algorithm. Why is this algorithm more efficient than the Cohen-Sutherland algorithm?
8. Explain the terms projection plane, view plane and view volume with references to 3D graphics. State and explain the anomalies of perspective projection.
9. Write short notes on :
 - a) Anti-aliasing
 - b) Components of a Graphics System