1. Answer any two parts:  
(a) What are the criteria that should be satisfied by a good line drawing algorithm? Explain.  
(b) Explain the mid point circle generating algorithm.  
(c) Write a short note on the following:  
   (i) Random scan and Raster scan display  
   (ii) Frame buffer and video controller.

2. Answer any two parts:  
(a) Describe the Cohen Sutherland line clipping algorithm with suitable example.  
(b) Discuss the following transformations with a relevant example:  
   (i) Composite transformation  
   (ii) Reflection and shearing.  
(c) Write an algorithm for polygon clipping.
3. Write short notes on any two of the following: (6×2=12)
   (a) 3-D transformation
   (b) 3-D projection
   (c) 3-D clipping.

4. Answer any two parts: (7×2=14)
   (a) Write an algorithm to draw Bezier curves.
   (b) What are the various back face detection algorithms? Explain any one of them.
   (c) Explain the following:
       (i) Illumination models
       (ii) Text clipping.