GURUDAS COLLEGE
Internal Test
SUBJECT - CMSA
SEM-III
PAPER : SEC-A-3-1

Answer Q1 and any 4 from the rest:

1. **Answer any Four:**   **1.5x4**
   a. Define aspect ratio.
   b. Differentiate between raster scan and vector scan.
   c. what do you mean by reference point in computer graphics?
   d. What do you understand by resolution of a monitor?
   e. Define Scan conversion in Computer Graphics.
   f. Write the two dimensional shearing matrix(about x-axis and about y-axis).
   g. why we need transformation in computer graphics?

2. Derive and discuss Mid point circle drawing algorithm.   **6**

3. Derive and discuss DDA scan conversion line drawing algorithm.   **6**

4. What are the advantages and disadvantages of homogeneous coordinate System in Two dimensional transformation?

                                                                                                 3+3

5. what is composite transformation? State the importance of inverse transformation?   **6**

6. Discuss the display technology of CRT monitor.   **6**

7. Write a short note on LCD display System.   6

8. Explain Rotation ,Scaling and Translation in 3D transformation ?   6

9. Draw a line from (1,1) to (8,5) using Bresenham's line drawing algorithm.   6