

**V.P. AND R.P.T.P SCIENCE COLLEGE**  
**VALLABH VIDYANAGAR**  
**T.Y. B.Sc (SEM - V)**  
**US05CCSC06 : COMPUTER GRAPHICS AND MULTIMEDIA**

Date: 07/10/2013

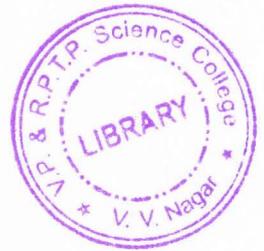
Time: 03:30 P.M to 05:00 P. M

Total Marks: 30

**Q.1 Multiple Choice Question**

(6)

1. \_\_\_\_\_ are used to summarize financial, statistical, mathematical, scientific and economic data for research reports, managerial reports.  
[a] Presentation graphics [b] Presentation schema  
[c] Line graphs [d] None of above
2. \_\_\_\_\_ are used to move the electron beam to any position of the screen.  
[a] Line plates [b] Deflection plates [c] Graphic plates [d] None of above
3. Boundary Fill/Flood Fill algorithm can be applied as \_\_\_\_\_.  
[a] 4-connected approach [b] Only (a)  
[c] 8-connected approach [d] Both (a) and (b)
4. In non-zero winding rule, edges count is called \_\_\_\_\_.  
[a] Total Winding Counting [b] Edges Number  
[c] Winding Number [d] Non - Zero Counting
5. A \_\_\_\_\_ is a transformation that produces a mirror image of an object.  
[a] translation [b] reflection [c] rotation [d] shear
6. A world coordinate area selected for display is called \_\_\_\_\_.  
[a] window [b] viewport [c] clip window [d] viewing transformation



**Q.2 Answer the following questions in short [Any 3]**

(6)

1. Explain DVST.
2. What is Beam Penetration Method in Colour CRT monitor?
3. List caps used at the end of line. Explain any one.
4. Differentiate: Bitmap font and Outline font
5. What is Geometric Transformation? List all two dimensional geometric transformation?
6. Explain point clipping. State condition for clipping a point.

**Q.3 Write detailed note on 'Major applications of Computer Graphics'.**

(6)

OR

**Q.3 Write a short note on CRT.**

(6)

**Q.4 Write steps for Bresenham line drawing algorithm.**

(6)

OR

**Q.4 What is inside-outside test? Explain odd-even rule with example.**

(6)

**Q.5 Write a shortnote on Viewing Pipeline**

(6)

OR

**Q.5 What is text clipping? List out all types and explain it with example.**

(6)