

**MCA-651**

**MCA-11**

**M.C.A. DEGREE EXAMINATION – JUNE 2008.**

**Second Year/Third Semester**

**COMPUTER GRAPHICS**

**Time : 3 hours**

**Maximum marks : 75**

Answer for 5 marks questions should not exceed  
2 pages.

Answer for 10/15 marks questions should not exceed  
5 pages.

**PART A — (5 × 5 = 25 marks)**

Answer any FIVE questions.

1. Describe the following :
  - (a) Mouse
  - (b) Joystick.
2. What are the advantages of raster scan systems?
3. Describe windows and view ports.
4. Write short notes on Point clipping.

5. Explain view volumes and projections in detail.
6. Explain Depth Compression in detail.
7. Write short notes on command languages.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

8. Explain major components of CRT with a neat diagram.
9. Explain Bresenham's line drawing algorithm with an example.
10. Discuss various Hard-Copy output devices in detail.
11. Explain the various 3D Transformation in detail.
12. Explain Sutherland-Hodaman Polygon clipping algorithm in detail.
13. Explain view volumes and projections in detail.
14. Present a tutorial on User Interface Design.