

Roll No.

Exam Code : J-19

Subject Code—0389

M.C.A. (Fourth Year) EXAMINATION

(5 Years Integrated Course)

(Main & Re-appear for Batch 2009 Onwards)

COMPUTER GRAPHICS & MULTIMEDIA

MCA-401

Time : 3 Hours

Maximum Marks : 70

Section A

Note : Attempt any *Seven* questions. **7×5=35**

1. Discuss the working of various Graphic Input Devices.
2. How does calligraphic display and raster scan display work ?
3. Discuss fundamental aspects of circle plotting using midpoint algorithm.

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4. Discuss fundamentals of circle plotting using Bresenham's algorithm.
5. What is windowing and clipping ?
6. What are Bezier curves ? Explain.
7. Explain the concept of rotation.
8. State difference between isometric and perspective projections.
9. Write short note on hardware and software for multimedia.
10. Discuss the various components of multimedia.

Section B

Note : Attempt all the questions.

11. Write Bresenham's algorithm for line and circle plotting and explain in detail. 12

Or

Discuss the working of Graphic input and output in detail.

12. What is Windowing and Clipping ? Discuss Sutherland-Cohen approach for line clipping. 12

Or

Discuss the various types of Bezier curves and mechanism to draw it.

13. Discuss the various types of Graphic projections in detail. 11

Or

Discuss the various multimedia authoring tools along with their working.