Subject Code—6762-X

M. Sc. (CS)/M.C.A. EXAMINATION

(Third Semester)

(MCA 3 Years)

(For Re-appear Batch 2009)

MS-13

COMPUTER GRAPHICS

Time: 3 Hours Maximum Marks: 70

Note: Attempt any Five questions. All questions carry equal marks.

- 1. What do you mean by Computer Graphics?

 How does computer graphics system work?

 What are the advantages of interactive compute graphics?
- List the operating characteristics for the following display technology:
 Raster Refreshes System, Plasma Panel, LED and LCD.

- 3. Explain Bresenham's algorithm for line drawing. What Raster location will be chosen when scan converting line from pixel (1, 1) to pixel (8, 5) using above algorithm.
- 4. Write 2-D Cohen-Sutherland algorithm for line segment clipping and hence find points of intersection in case of clipping candidate. Compare efficiency of clipping obtained using Mid-Point subdivision and Sutherland Cohen method.
- 5. What is Hidden surface problem? How is the depth of a polygon determined by the Painter's algorithm?
- Explain hardware, software and application area of multimedia in detail.
- 7. Explain the different interactive graphical techniques.

- 8. Write short notes on the following:
 - (a) Window to viewport transformation
 - (b) GKS primitive

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- (c) GKS viewport command
- (d) Touch panels.

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