

E- JUN 2006

Subject Code—4380-X

June 2006

M.C.S. EXAMINATION

(Third Semester)

(Re-appear)

MS-13

COMPUTER GRAPHICS

Time : 3 Hours

Maximum Marks : 100

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

1. Write short notes on the following :

- (a) Interactive Graphics
- (b) Raster Scan Monitors
- (c) Plasma-Panel Display
- (d) Hard Copy Devices.

P.T.O.

2. (a) Perform a 45° rotation of triangle A (0, 0), B (1, 1), C (5, 2).
 - (i) about the origin.
 - (ii) about the P (- 1, - 1).
- (b) Explain scan conversion of circle and ellipse.
3. (a) Explain Positioning and Pointing Devices.
- (b) Explain Rubber Band Methods and Gravity Field.
4. Explain Hidden Surfaces. Write the Pointer's algorithm.
5. Explain hardware, software and application area of multimedia.
6. Write short notes on the following :
 - (a) Parallel Projection
 - (b) Perspective Projection
 - (c) Vanishing Points
 - (d) Clipping and Shielding.

7. (a) Explain Bezier Curves and Surfaces with equations.
 - (b) Explain Wireframe Model and its usage.
8. Write short notes on the following :
- (a) GKS Subroutines
 - (b) Window to Viewport Transformation
 - (c) Sutherland-Cohen Algorithm.