

Atal Bihari Vajpayee Indian Institute of Information Technology & Management, Gwalior

IT303: Computer Graphics

Minor Examination (Session 2024–25)

Maximum Time: 1.5 Hours

Max Marks: 25

Note: Attempt all questions in sequence. Neat diagrams will be rewarded.

1. Describe the working principle of raster graphics systems. (5 Marks)
2. Explain the midpoint line drawing algorithm with a suitable example. (5 Marks)
3. Derive the homogeneous transformation matrix for 2D translation and scaling. (5 Marks)
4. Differentiate between windowing and clipping in computer graphics. Give examples. (5 Marks)
5. Write short notes on: (a) Display processor (b) Refresh rate in CRT displays (5 Marks)