



'সমানো মন্ত্র: সমিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**

B.Sc. Honours 6th Semester Examination, 2023

**CC14-COMPUTER SCIENCE (62)**

**COMPUTER GRAPHICS**

Time Allotted: 2 Hours

Full Marks: 40

**GROUP-A**

**Answer any *five* of the following**

1×5 = 5

1. What do you mean by resolution of screen?
2. Define aspect ratio.
3. What do you mean by animation?
4. Define frame buffer.
5. What is Digitizer?
6. Briefly describe about Multimedia.
7. What do you mean by shearing?
8. Expand LED.

**GROUP-B**

**Answer any *three* of the following**

5×3 = 15

9. Briefly describe about CRT monitor.
10. Use DDA algorithm to find points on a line between (2, 2) and (10, 4).
11. Describe basic 2D transformations with examples.
12. Write down the difference between Raster scan system and Random scan system.
13. Explain Boundary fill algorithm.

**GROUP-C**

**Answer any *two* of the following**

10×2 = 20

14. Describe Bresenham's line drawing algorithm.
15. Write down the Cohen-Sutherland line clipping algorithm.
16. Derive Cubic Bezier curve having 4 control points.
17. Write a short note on Sampling and Quantization.

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