

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 6th Semester Examination, 2022

CC14-COMPUTER SCIENCE (62)

COMPUTER GRAPHICS

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

	GROUP-A	
	Answer any five questions	$1\times5=5$
1.	Define aspect ratio.	1
2.	Define Frame Buffer.	1
3.	What do you mean by Resolution?	1
4.	Define Digitizer.	1
5.	What are homogenous coordinates? Explain their use.	1
6.	State the difference between printer and plotter.	1
7.	What is raster scan?	1
8.	What is the function of frame buffer?	1
	GROUP-B	
	Answer any three questions	$5 \times 3 = 15$
9.	What is projection? Differentiate between parallel and perspective projection.	5
10.	Differentiate between random scan and raster scan.	5
11.	Write down DDA line drawing algorithm.	5
12.	What is clipping? Explain the method of Cohen Sutherland line Clipping in detail.	5
13.	Explain 2D rotation with the help of an example.	5

UG/CBCS/B.Sc./Hons./6th Sem./Computer Science/COMSCC14/2022

GROUP-C

	Answer any two questions	$10 \times 2 = 20$
14.	Explain 2D geometric transformation. Derive the various transformation matrix regarding 2D-geometric transformation.	10
15.	Discuss midpoint circle generation algorithm with example.	10
16.	Explain Bresenham's line drawing algorithm with example.	10
17.	Discuss different applications of Computer Graphics.	10

6021 2