



Daffodil International University

Department of Computer Science and Engineering

Faculty of Science & Information Technology

Midterm Examination, Spring 2023

Course Code: CSE421, Course Title: Computer Graphics

Level: 4

Term: 1

Batch: 56 batch

Marks: 25

Time: 1.5 Hrs

Answer **ALL** Questions

[The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

1.	a)	Identify the application areas of Computer Graphics in Education and Training.	2	CO1
	b)	Write short note on Detect-View Storage Tube (DVST).	3	
2.		Suppose Mr. Manik wants to create a video game that involves drawing lines on a 2D grid. Starting points and ending points of the grid are (9, 18) and (19, 24). Now, Apply a line Algorithm that will help Mr .Manik to draw the line accurately.	7	CO2
3.		Suppose we want to draw a shape like "S". For the purpose we have taken two circle having radius 6 and centered at (0,6) and (0,-6) respectively. We have trimmed down half of the each circle to look like the following figure "B". Now, analyze the Algorithm to determine the points of the following shape.  Fig: B	8	CO2

4.	Discover the new points and plot- - Rotate the following figure "C", in n degree in clockwise direction. Here n is the last 2 digit of your id. Example: My id is 193-15-12811, here $n=11$. - Scale the rectangle 1.5 times bigger.	(3+2)	CO2
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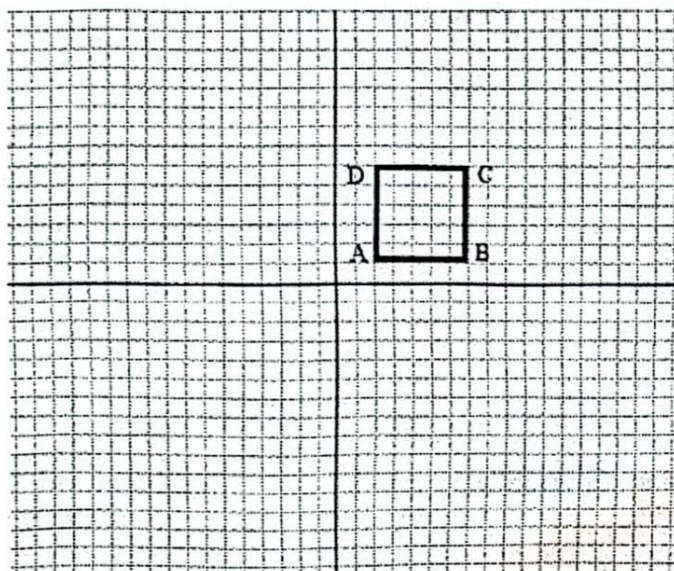


Fig: C