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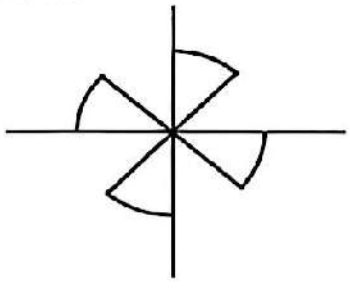
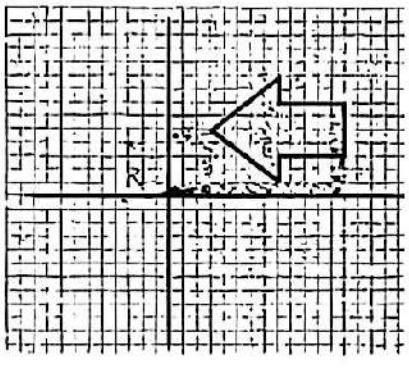
Daffodil International University

Department of Computer Science and Engineering
Faculty of Science & Information Technology
Midterm Examination, Fall 2024
Course Code: CSE421, Course Title: Computer Graphics
Level: 4 Term: 1 Teacher: All

Time: 01:30 Hours **Marks: 25**

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)	**Describe** the working principle of DVST with a diagram.	[3]	CO1
	(b)	**How** do computer graphics benefit the education sector?	[2]	
2.		Mr Bresenham is trying to improve the DDA line drawing algorithm. For this reason, he derive some parameters for the line-improving DDA algorithm. Now you are Mr. Bresenham and **derive** the equations for the parameters, including the first parameter.	[5]	CO2
3.		Mr. Ashik wants to create a fan like the following figure 01. The diameter is twice the radius which is 28. So please help Mr. Ashik to **apply** the circle Algorithm for preparing this fan in an urgent basis.  Figure-01	[8]	CO2
4.		**Discover** the new points and plot of figure-02  Figure: 02 i. Reflect the object in respect of y axis. ii. Rotate the following figure 02, ** degree in y-axis direction Instruction: ** is the last two digits of your ID (If your ID is 241-15-10834, then the degree will be 34)	[7]	CO2

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