



# Daffodil International University

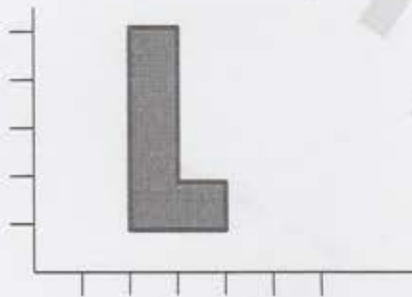
Department of CSE  
Faculty of Science & Information Technology  
Mid-Term Examination  
Course Code: CSE 421 (Day)  
Section: ALL  
Semester: Spring 2019  
Course Title: Computer Graphics  
Course Teacher: ALL

Time: 1.5 hours

Full Marks: 25

**Question 1 is mandatory to answer. Answer any 2 from Questions 2-4.**

1. a. Write short note on DVST. 3  
b. Write the disadvantages of plasma panel display monitor. 2
2. a. An LCD monitor has a max height of 1024 and max width of 1024. Now deduce the equations for DDA line algorithm for drawing a line along the points  $(X_0, Y_0)$  and  $(X_1, Y_1)$  in the monitor. 4  
b. Rotate the following object 30 degree in y-axis and compute the new points. Then, scale the object 2 times smaller. Determine the new points and plot them. 6



3. a. Differentiate between two color methods of CRT display. 4  
b. Draw a circle by using Mid Point Circle Algorithm where the diameter is 24. 6
4. a. "Computer Graphics is a vast and recent area in computer science"- Justify your answer according to its application. 4  
b. Draw a line with starting point  $(29, 41)$  by using Bresenham's Line Drawing algorithm. Here,  $\Delta x = 9$  and  $\Delta y = 6$ . 6