

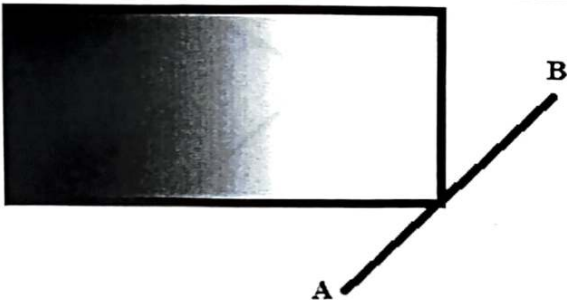


Daffodil International University
Faculty of Science & Information Technology
Department of Computer Science & Engineering
QUIZ - 02

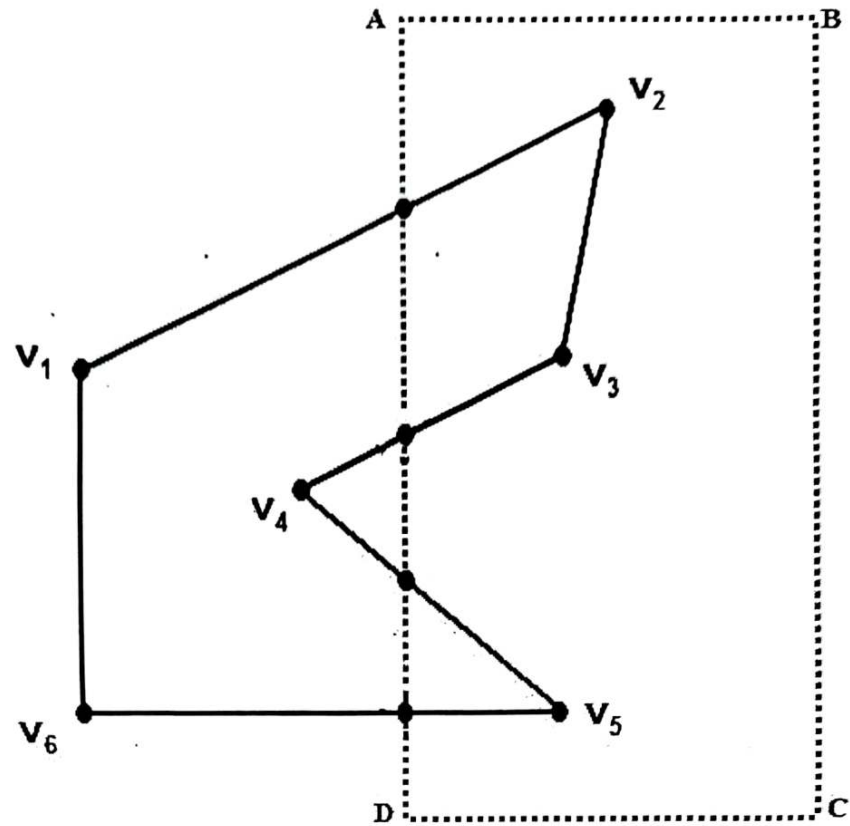
Course Code: CSE411, Course Title: Computer Graphics

Time: 1 Hour

Marks: 15

1.	 Given a clipping window with $xmin = -2$, $xmax = 5$, $ymin = -1$, $ymax = 3$ and a line segment joining $A(3, -3)$ and $B(7, 1)$		
a.	Determine the category of the line. If the line is a clipping candidate, perform the clipping with proper mathematical steps.	[3]	CO2
b.	Explain the technology used to generate the color in the clipping window shown above.	[2]	CO1

2.



a.	Perform clipping of the above polygon using the Sutherland-Hodgeman algorithm.	[4]	CO2
b.	Perform clipping of the same polygon using the Weiler-Atherton algorithm.	[4]	CO2
c.	State which algorithm is more suitable in this case and justify your answer.	[2]	CO3