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Daffodil International University

Faculty of Science & Information Technology

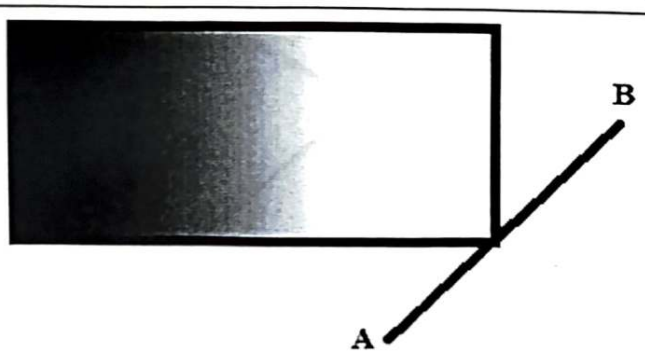
Department of Computer Science & Engineering

QUIZ - 02

Course Code: CSE411, Course Title: Computer Graphics

Time: 1 Hour **Marks: 15**

1.

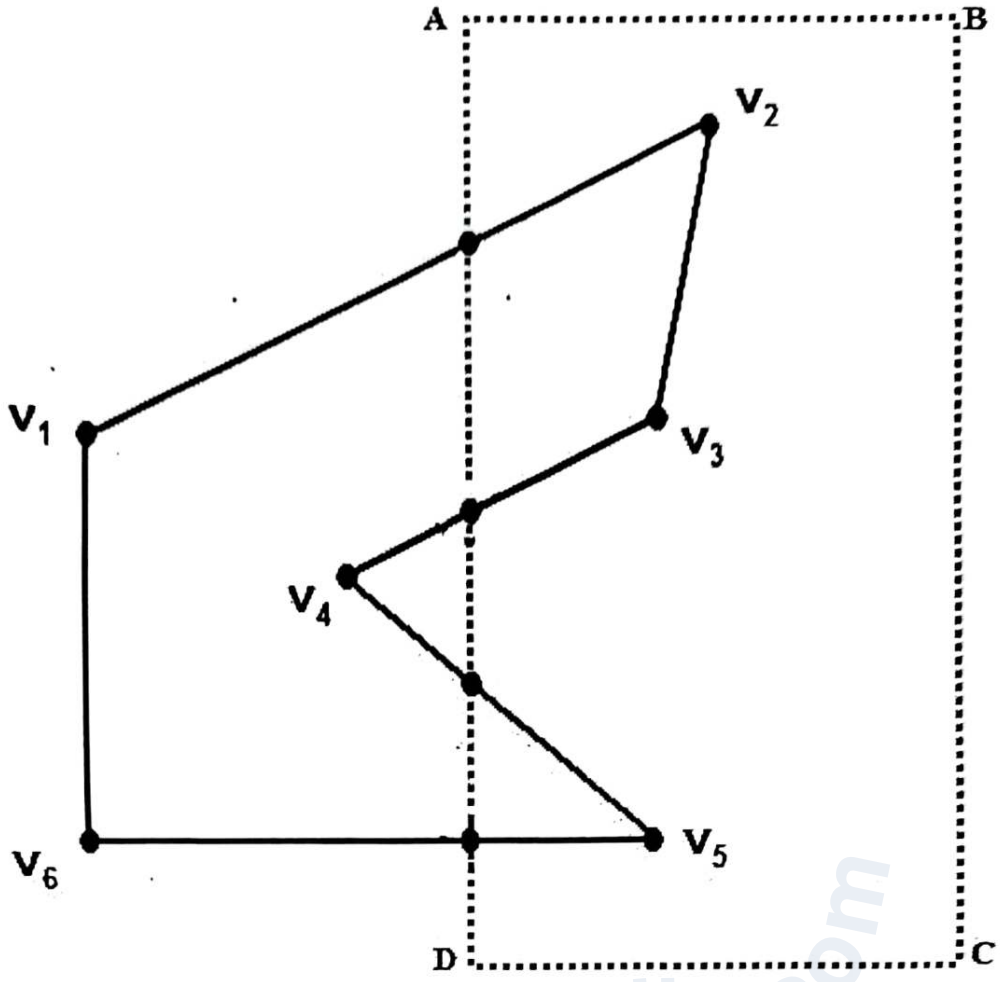


Given a clipping window with
xmin = −2, xmax = 5, ymin = −1, ymax = 3
and a line segment joining
A(3,−3) and B(7,1)

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**

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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**

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