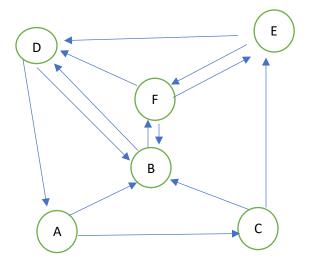
## **CSC 6013 – Summer 2022**

## **Worksheet for Brute Force Algorithms**

Submit your work as a docx or pdf file through Blackboard.

Show your work, not just your final answer!!!!

## 1) Breadth First Search



- a) Represent this graph as an adjacency <u>matrix</u>. Arrange the vertices in alphabetical order as row and column labels. [Draw this on paper. You do not have to write code to create a data structure.]
- b) Represent this graph using adjacency <u>lists.</u> Arrange the neighbors of each vertex in alphabetical order. [Draw this on paper. You do not have to write code to create a data structure.]
- c) Show the steps of a breadth first search with the graph given above using the technique given in the class notes. Use the adjacency lists representation that you created in 1b. Start at vertex A.