Facultad de Ingeniería en Electricidad y Computación
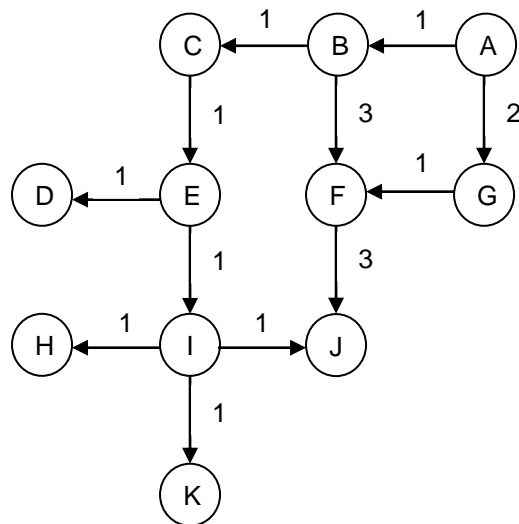## Artificial Intelligence

Homework # 1. Blind Search Mechanisms:

Work as a group and answer each of the following questions. You must report only one document as a group, and place it in SIDWeb 4.0, section "Trabajos".

DO NOT *send the homework via email.*

1. Consider the following graph, where nodes are labelled alphabetically and links have associated costs. Answer the following questions:

   a) List the nodes in the order they would be visited when performing depth first search for K, starting from A, showing what is in the open and close lists. Assume that neighbors of the same node are visited in alphabetical order.

   b) Do the same for breath first search for K, starting from A, showing what is in the open and close lists.

2. The decision for doing DATA or GOAL DRIVEN search is generally based on the structure of the problem. As a group, discuss and report the conclusions about the characteristics of the structure that the problems should have. Report at least 3 characteristics for data driven and 3 for goal driven search.