

CS 731

Written Homework 1

Assigned Sept 8, Due Sept 15 at start of class

Consider the Bayesian network below.

- 1) What is the Markov blanket of node I?
- 2) What is the Markov blanket of node B?
- 3) What is the Markov blanket of node E?
- 4) Given evidence only at nodes B, E and K, which nodes are d-separated from node D?
- 5) Given evidence only at nodes A, E and J, which nodes are d-separated from node G?
- 6) Given evidence only at node G and D, which nodes are d-separated from node A?
- 7) Given evidence only at nodes A, C, D and E, what nodes are d-separated from node B?

