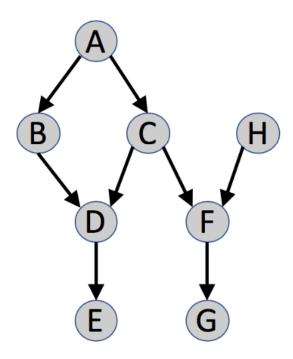
CSCI 378 HW5

Examine the following Bayesian network structure:



Consider a probability distribution that factors according to this Bayesian network structure. Which of the following statements **must be true** about the probability distribution? Write a checkmark beside each true statement.

A Ⅱ D C?
$A \perp\!\!\!\perp D \mid \{B,C,H\}?$
<i>A</i>
$B \perp\!\!\!\perp H \mid A?___$
$B \perp\!\!\!\perp H \mid \{A, E, G\}?$
$B \perp\!\!\!\perp G \mid \{C,D\}?$
$B \perp\!\!\!\perp F \mid \{A,E\}?$
A ♯ F B?
C ♯ E A?
H ∦ F?