Discrete Math
Quiz 6

Name:_____

You have 10 minutes to complete this quiz. You may not use any unauthorized sources and you may not communicate with others about the exam. If you have a question raise your hand and remain seated. In order to receive full credit your answer must be **complete**, **legible** and **correct**. Show your work, and give adequate explanations.

1. Each of (a), (b), (c) contains a modified form of the proposition "$H \to C$". Use the first blank to identify the form using one of the words "contrapositive", "converse", or "inverse" of $H \to C$. In the second blank, indicate whether or not the form is logically equivalent to $H \to C$.

(a) $C \to H$ _____converse_____   _not L.E._

(b) $(\neg H) \to (\neg C)$ _____inverse_____   _not L.E._

(c) $(\neg C) \to (\neg H)$ _____contrapositive_____   _L.E._