

Name (PRINTED): _____

Student ID #: _____

Section # (or TA's: _____
name and time)

CMSC 250

Quiz #2

Wednesday, Sept. 7, 2005

Write all answers legibly in the space provided. The number of points possible for each question is indicated in square brackets – the total number of points on the quiz is 30, and you will have exactly 15 minutes to complete this quiz. You may not use calculators, textbooks or any other aids during this quiz.

1. [10 pnts.] Determine if the following three statements are logically equivalent by using a SINGLE, COMPLETE truth table. Use 1 for “true” and 0 for “false” to complete the truth table.

a. $(p \wedge r) \vee r$

b. $(p \vee r) \wedge (\sim p \vee r)$

C. r

[illegible]

_____ (Yes or No) These statements are logically equivalent.

2. [6 pnts.] Give one possible value for the integer n in each of the following which would make the statement true. (If there is no possible value, write the word “impossible”.)

- $p = (n \leq 1)$

- $q = (n \neq 3)$

- $r = (n \geq 7)$

a. $\sim (p \vee \sim q)$ _____

b. $(p \wedge r) \wedge q$ _____

↓ TURN OVER ↓

- $$(\sim (a \vee \sim b) \wedge (a \vee \sim c)) \wedge (b \wedge a)$$

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

a	TRUE	FALSE
b	TRUE	FALSE
c	TRUE	FALSE

4. Give an alias - a madeup name you will associate with yourself - under which you would like your grades posted. If you do not want to have your grades posted, specify the alias "None".