

# CMSC435; Section 0101

## Apr. 20, 2006; Quiz #10

*Please remember to write your name!!*

**Student's Name:** \_\_\_\_\_

Question 1: A coverage criterion  $c_1$  *subsumes* coverage criterion  $c_2$  if and only if *all* test suites that satisfy  $c_1$  also satisfy  $c_2$ . Give an example of a criterion that subsumes another criterion. Support your answer with one example test suite.

Let  $T_{c_1}$  be the *set of all test suites* that satisfy  $c_1$ . Let  $T_{c_2}$  be the set of all test suites that satisfy  $c_2$ . Criterion  $c_1$  subsumes criterion  $c_2$ . Is it always true that  $|T_{c_2}| < |T_{c_1}|$ ? If yes, then construct a proof; if no, then give a counter example.