INSTRUCTIONS — PLEASE READ THIS NOW

• You will be graded on all the True/False questions, and on three of the five remaining problems that you choose. Your score will be out of a possible total of 100 points. On this cover sheet, please circle the problem numbers for which you wish us to grade. If you do not circle any problems on this cover sheet, we will grade the first three problems you have started to answer.

• Please carefully write all your final answers on the page they are posed. You should include a complete logical justification, and you answers should be written in grammatically correct mathematical language. There are 2 extra blank pages at the end of the exam, but we will not read your work on those pages.

• Write your name and check the box with your instructor’s name and your section number right now.

• Look over your test packet as soon as the exam begins. If you find any missing pages or problems please ask for another test booklet.

• You have 50 minutes to complete this exam. You may leave early, but if you finish within the last 10 minutes, please remain in your seat.

• This is a closed book exam. You are NOT allowed to use a calculator, cell phone, or any other electronic device (not even as a time keeping device).

• Academic integrity is expected of every Cornell University student at all times, whether in the presence or absence of a member of the faculty. Understanding this, I declare I shall not give, use, or receive unauthorized aid in this examination. I will not discuss this exam with other students until both sections have taken the exam.

Please sign below to indicate that you have read and agree to these instructions.

__________________________
Signature of Student
True/False. Please circle TRUE if the statement is always true, or FALSE if it fails in at least one example. You do not need to justify your answer, and I will not read what you write in the spaces below.

(a) All horses are the same color.  

(b) The city of Ithaca was once known as Sodom.

(c) Ithaca was a film capital in the early twentieth century.

(d) Cornell students have more fun than Harvard students.

(e) Ithaca has its own currency.
You must answer three of the following five questions. The questions are repeated, with space for your answers, on the following pages. **On the cover sheet**, please circle the problems you would like us to grade. If you do not circle any problems on the cover sheet, we will grade the first three problems you have started to answer.

**Question 1. Topic.**

(a) Here is the first part. Please justify your answers.

(b) Here is the second part. Please justify your answers.

**Question 2. Topic.**

(a) Here is the first part. Please justify your answers.

(b) Here is the second part. Please justify your answers.

**Question 3. Topic.**

(a) Here is the first part. Please justify your answers.

(b) Here is the second part. Please justify your answers.

**Question 4. Topic.**

(a) Here is the first part. Please justify your answers.

(b) Here is the second part. Please justify your answers.

**Question 5. Topic.**

(a) Here is the first part. Please justify your answers.

(b) Here is the second part. Please justify your answers.
Question 1. Topic.

(a) Here is the first part. Please justify your answers.

(b) Here is the second part. Please justify your answers.