

PLEASE HAND IN

UNIVERSITY OF TORONTO  
AT MISSISSAUGA  
Faculty of Arts and Science  
DECEMBER 2007 EXAMINATIONS

PLEASE HAND IN

CSC 236 H5F  
Instructor(s): A. Magen  
Duration — 3 hours

Examination Aids: *One* 8.5" × 11" sheet of paper, *handwritten* on both sides.

Student Number: \_\_\_\_\_

Last (Family) Name(s): \_\_\_\_\_

First (Given) Name(s): \_\_\_\_\_

*Do not turn this page until you have received the signal to start.*  
In the meantime, please read the instructions below *carefully*.

This final examination consists of 6 questions on 20 pages (including this one), printed on both sides of the paper. *When you receive the signal to start, please make sure that your copy of the examination is complete, complete the identification section above, and write your student number where indicated at the bottom of every odd-numbered page (except page 1).*

Answer each question directly on the examination paper, in the space provided, and use the reverse side of the pages for rough work. If you need more space for one of your solutions, use the reverse side of a page and *indicate clearly the part of your work that should be marked.*

In your answers, you may use without proof any result or theorem from lectures, tutorials, assignments, tests, or the textbook, as long as you give a clear statement of the result(s)/theorem(s) you are using. You must justify all other facts required for your solutions.

Write up your solutions carefully! In particular, use notation and terminology correctly and explain what you are trying to do—part marks *will* be given for showing that you know the general structure of an answer, even if your solution is incomplete.

If you are unable to answer a question (or part), you will get 20% of the marks for that question (or part) if you write “I don’t know” and nothing else—you will *not* get those marks if your answer is completely blank, or if it contains contradictory statements (such as “I don’t know” followed or preceded by parts of a solution that have not been crossed off).

MARKING GUIDE

- # 1: \_\_\_\_\_/ 18
- # 2: \_\_\_\_\_/ 15
- # 3: \_\_\_\_\_/ 15
- # 4: \_\_\_\_\_/ 16
- # 5: \_\_\_\_\_/ 20
- # 6: \_\_\_\_\_/ 16

BONUS  
MARKS: \_\_\_\_\_/ 8

TOTAL: \_\_\_\_\_/100