

THE UNIVERSITY OF SYDNEY
MATH2069/2969 DISCRETE MATHEMATICS AND GRAPH THEORY

Semester 1	Discrete Mathematics Quiz Announcement	2006
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Time: 2.15 – 2.50 p.m. Tuesday 28 March 2006

Place: Carslaw 175 Lecture Theatre (normal room for lecture)

Information:

- (1) Wait (quietly) outside Carslaw 175 until called inside.
- (2) No books, materials or calculators are permitted.
- (3) Short answers only will be required.
- (4) The quiz reviews the material from page 9 to page 72, from page 2.12 to page 2.24, and page 2.34 of the lecture notes. In particular you should review the following words and concepts:

mathematical induction, start of the induction, inductive hypothesis, inductive step, factorial notation, sequences, n th term of a sequence, recurrence relations, the Fibonacci sequence, homogeneous recurrences, characteristic equation, nonhomogeneous recurrences, complementary function, particular solution, general solution, generating functions, adding and multiplying generating functions, geometric series, partial fractions, sigma notation, Big-Oh notation, criteria for Big-Oh using limits, L'Hopital's Rule, comparing growth rates of functions, definitions of floor and ceiling functions.