

THE UNIVERSITY OF SYDNEY  
FACULTIES OF SCIENCE AND ARTS  
SCHOOL OF MATHEMATICS AND STATISTICS

**Fourth Year Applied Mathematics Honours**

1st–Semester Examination June 2008

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**Populations and Disease**

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*Time Allowed:  $2\frac{1}{2}$  Hours*

*Dr Mary Myerscough*

1. This paper is worth 60% of the course assessment.
2. It is divided into two parts, Part A and Part B.
3. Part A is worth 10% of the course assessment and will be collected after the first half hour of the exam.
4. Lecture notes, lecture handouts, handwritten notes, exercises, assignments and solutions to exercises and assignments and up to 30 pages of photocopies of printed material may be brought into the exam. These may not be consulted until after Part A has been collected.
5. All questions may be attempted.
6. All questions in Part B are worth equal marks.
7. Please do Part A in a separate exam book.
8. You may assume any formulas derived in lectures without proof unless otherwise stated.
9. Calculators with a one line display may be used in the exam.
10. Slightly more weight is given to questions substantially completed than to partial answers.

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