# THE COLLEGES OF OXFORD UNIVERSITY MATHEMATICS, JOINT SCHOOLS AND COMPUTER SCIENCE

#### WEDNESDAY 31 OCTOBER 2007

Time allowed:  $2\frac{1}{2}$  hours

For candidates applying for Mathematics, Mathematics & Statistics, Computer Science, Mathematics & Computer Science, or Mathematics & Philosophy

Write your name, test centre (where you are sitting the test), Oxford college (to which you have applied or been assigned) and your proposed course (from the list above) in BLOCK CAPITALS

NAME: TEST CENTRE: OXFORD COLLEGE (if known): DEGREE COURSE: DATE OF BIRTH:

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**NOTE**: This paper contains 7 questions, of which you should attempt 5. There are directions throughout the paper as to which questions are appropriate for your course.

Mathematics
Maths & Philosophy
Maths & Statistics

Mathematics

Candidates should attempt Questions 1, 2, 3, 4, 5.

Maths & Computer Science candidates should attempt Questions 1, 2, 3, 5, 6.

Computer Science candidates should attempt Questions 1, 2, 5, 6, 7.

Further credit cannot be gained by attempting extra questions.

Question 1 is a multiple choice question with ten parts, for which marks are given solely for the correct answers, though you may use the space between parts for rough work. Answer Question 1 on the grid on Page 2. Each part is worth 4 marks.

Answers to Questions 2–7 should be written in the space provided, continuing onto the blank pages at the end of this booklet if necessary. Each of Questions 2–7 is worth 15 marks.

ONLY ANSWERS WRITTEN IN THIS BOOKLET WILL BE MARKED. DO NOT INCLUDE EXTRA SHEETS OR ROUGH WORK.

THE USE OF CALCULATORS, FORMULA SHEETS AND DICTIONARIES IS PROHIBITED.

# **University Maths Paper For Fybiotechnology**

**M** Mosston

# **University Maths Paper For Fybiotechnology:**

Mathematical Systems in Biology and Biotechnology Wageningen University,2010 Maths for Advanced Biology Alan Cadogan, Malcolm Ingram, 2002 Written by teachers and fully covering the 2002 A Level maths specifications for biology this text is useful for both classroom work and homework exercises Relevant for AS and A2 Levels of study and designed to be accessible and friendly in format its aim is to provide clear and concise explanations of mathematical concepts and how these are then applied in biology Worked examples are included throughout encouraging students to grasp the subject matter with ease Examination style questions and answer sections provide an opportunity for continuous progression and to consolidate learning Mathematics Applied to Biology and Medicine P Auger, J Demongeot, 1995

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### **University Maths Paper For Fybiotechnology Introduction**

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