



DEPARTMENT OF
STATISTICS

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FHS Mathematics and Statistics Part A 2019

Second Notice to Candidates Trinity Term 2019

The First Notice to Candidates, which was sent to you in February, can be found on the web at: <http://www.stats.ox.ac.uk/wp-content/uploads/2019/02/First-notice-to-candidates-Mathematics-and-Statistics-Part-A-2019.pdf>

This notice summarises information about the examination. You should read this notice carefully. You should also make sure that you read the general information about the conduct of University examinations available online at <https://www.ox.ac.uk/students/academic/exams?wssl=1>

Timetable

Your personal timetable showing your papers and the dates, times and location at which they will take place will be published online via Student Self Service at least two weeks before your first examination. It is your responsibility to ensure that you sit the correct examination and misreading of information will not be considered an acceptable reason for non-attendance. The complete timetable is also posted on the Examination Schools website <http://www.ox.ac.uk/students/academic/exams/timetables>. The examinations will be held at the **Examination Schools** (unless alternative arrangements have been approved and are in place), in weeks 8 and 9, Monday 17 June to Friday 28 June 2018. Papers commence at 9.30 am and 2.30 pm.

Conduct of Examination Sessions

You should arrive at the Examination Schools 20 minutes before the start of each of your papers. **You must take your University card with you to each examination and it must be displayed on your desk with the photograph side facing upwards.** You may also take your individual examination timetable, provided you have not written on it or otherwise modified it. You must take writing equipment in a clear pencil case or plastic bag. Neither calculators nor statistical or other tables are permitted in these examinations. Details of other items which you are permitted to take with you, and the list of disallowed items can be found online at:

<http://www.ox.ac.uk/students/academic/exams/guidance>. *Mobile phones and smart watches are included in the list of disallowed items and must not be taken into the examination room.*

Desks will be numbered and lists will be displayed throughout the reception areas as well as outside individual examination rooms, telling each candidate in which room and at which desk they will take their examination in that session. On reaching your desk you should check that the correct question paper has been provided but should not open the paper until the invigilator declares the start of the examination.

The invigilator will read out a list of instructions on procedure at the start of each examination. You should note in particular that you are not permitted to leave the examination room except with the permission of the invigilator. Candidates are not permitted to leave during the first 30 minutes nor the last 30 minutes of an examination. You may take your question paper with you at the end of the examination but no other paper may be removed from the examination room.

Queries during the Examination

If you believe that a question is incorrect or ambiguous, you may ask the invigilator to communicate with the Examiners. An Examiner or Assessor will be present for the first 30 minutes of each paper, but you can raise queries even after they have left. Any correction or clarification given to you will be announced to all candidates. Please note that the Examiners cannot assist you if you do not understand a word or phrase on the examination paper, or give you any other advice about the examination. If the Examiners cannot answer your question, you may write on your script what your query is, and how you are interpreting the question.

Scripts

Booklets of unlined paper are provided. You may write on both sides of the paper. You should take careful note of the rubric for each paper. It is essential that your **candidate number** be written correctly and legibly on the front page of each answer booklet. **You must start each question in a new booklet.**

Handing- in of Scripts

Read this section very carefully.

Some of this material was contained in the First Notice.

In Part A each candidate shall be required to offer the following written papers:

- A0 Linear Algebra (1.5 hours)
- A1 Differential Equations 1 (1.5 hours)
- A2 Metric Spaces and Complex Analysis (3 hours)
- A8 Probability (1.5 hours)
- A9 Statistics (1.5 hours)
- ASO Short Options (1.5 hours)

and **three or four** papers from the Long Options (each 1.5 hours long)

- A3 Rings and Modules
- A4 Integration
- A5 Topology
- A6 Differential Equations 2
- A7 Numerical Analysis
- A10 Fluids and Waves
- A11 Quantum Theory
- A12 Simulation and Statistical Programming

In all papers, each question is worth 25 marks and you may submit as many questions as you wish.

Paper A0 Linear Algebra and A1 Differential Equations I

These are core papers and each paper will contain 3 questions. The best two questions will count towards the total mark for the paper.

Paper A2: Metric Spaces and Complex Analysis

This paper includes 6 questions. The best four questions will count towards the total mark for the paper.

Paper A8: Probability and Paper A9: Statistics

These papers each contain three questions. On each paper the best two answers will count towards the total mark for that paper.

Paper ASO contains a single question on each of the nine Short Options. The best two questions will count towards the total mark.

The questions will be numbered according to the following scheme:

- | | |
|------------------------------|--------------------------------------|
| 1. Number Theory | 6. Calculus of Variations |
| 2. Group Theory | 7. Graph Theory |
| 3. Projective Geometry | 8. Special Relativity |
| 4. Introduction to Manifolds | 9. Mathematical Modelling in Biology |
| 5. Integral Transforms | |

Each of the **Long Options** papers contain three questions, with the best two questions counting towards a candidate's total mark for the paper.

It is essential that your candidate number is written correctly and legibly on the front cover of each answer booklet. You must start each question in a new booklet.

At the end of the examination please order your answer booklets by question number and secure with the treasury tag provided. You should hand in one bundle.

A separate cover sheet will be provided for ASO. This cover sheet should be attached to the front of your bundle and used to indicate the numbers of the questions in that bundle. For all other papers, list the question numbers of the questions attempted on the front page of the top answer booklet. If you have not attempted any questions, you must hand in an empty booklet, with the front page completed, stating that no questions were attempted.

Rough work

No special paper is provided for rough work. A separate answer booklet may be used for rough working, and should be labelled as such: these booklets must be handed in at the end of the examination. Alternatively, you may do rough working in the same booklet as your fair copy. In this case you should cross through all rough working to indicate very clearly to the Examiners what is to be marked and what is not.

Illegible scripts

Please write legibly and remember that you may not write in pencil, except to draw diagrams. Examiners may require illegible scripts to be transcribed. The cost of transcription is charged to the candidate.

Illness

If you are prevented by illness or other cause from attending any part of the examination you should ensure that the Senior Tutor of your college is informed immediately. In the case of illness a medical certificate will be required.

Notification of results

The examiners hope to finalise the results by Tuesday 16 July. After 16 July, to find out your results you may log on to the Student Self Service at www.evision.ox.ac.uk, using your Oxford Single Sign-On. Neither Schools staff, nor Department of Statistics staff, nor Mathematical Institute staff can give results over the telephone.

Dr Neil Laws, Chair of Mathematics and Statistics Part A examiners
May 2019