**Honour Moderations in Computer Science
and Mathematics and Computer Science**

First Public Examination 2010

Notice to Candidates

Purpose of this notice

Full particulars of the examinations are given in the *Examination Regulations* 2009, and Examination Conventions for 2010 can be found at
> http://www.comlab.ox.ac.uk/teaching/examconventions.html

This notice is confined to matters which may need emphasis or amplification.

Conduct of the examination

> *Candidates will be required to produce their University cards at the start of each examination session.*

The marking of the examination – including practical work – is conducted as far as possible in ignorance of the candidates' names and colleges. To this end the following points are to be observed:

> **Scripts:** Every candidate will be provided with an *examination number*, and all work handed in must be attached to a cover sheet marked with that number. *Even if the candidate submits no written work for an examination which he or she attends, a cover sheet should be submitted.*

> Neither the name nor the college of the candidate should appear anywhere on the script.

> **Practicals:** Each separate report of practical work should be conspicuously labelled *with the candidate's examination number only*, and not with the candidate's name or college.[1]

> See also the section on "Practical work".

The following points should also be noted:

> **Rough work:** Special paper will be provided. Candidates should not bring their own.

> **Legibility:** Illegible scripts, if they are to be considered by the examiners, will be typed *at the candidate's expense*.

> **Handing in:** Each candidate is responsible for handing in his or her scripts, appropriately bundled according to the instructions (if any) on the examination paper. Each bundle must have a completed cover sheet, and candidates should hand in an empty cover sheet for those sections of a paper from which they attempt no questions.

Timetable

Candidates will receive a copy of the detailed timetable from the Clerk of Schools.

---

[1] This regulation is designed to protect the anonymity of candidates in the interests of fairness, but the examiners do not intend to seek to penalize candidates who inadvertently break this rule when handing in practicals.

Composition of Papers

The examination will consist of five papers. Candidates taking Honour Moderations in Computer Science will take the papers

- CS1   Functional Programming, and Design and Analysis of Algorithms
- CS2   Imperative Programming
- CS3   Discrete Mathematics and Linear Algebra
- CS4   Digital Hardware, and Logic and Proof
- M1(CS)   Applied Mathematics

Candidates taking Honour Moderations in Mathematics and Computer Science will take the papers

- CS1   Functional Programming, and Design and Analysis of Algorithms
- CS2   Imperative Programming
- M1   Pure Mathematics I
- M2   Pure Mathematics II
- M3   Applied Mathematics

Papers CS1, CS2, CS3 and CS4 will each be of 3 hours' duration and will contain eight questions (four on each constituent course); candidates may answer up to five questions, with no more than three questions from either half of the paper.. Paper M1(CS) will be of 2 hours' duration and will contain four questions (two on Calculus and two on Probability); candidates may answer up to three questions.

Papers M1 and M2 will be 2 ½ hours' duration and will contain seven questions (the same as the corresponding Maths paper but excluding Geometry I); candidates may answer up to four questions. Paper M3 will be of 2 hours' duration and will contain five questions (two on Calculus and three on Probability); candidates may answer up to three.

Practical work

Handing in Practical Reports: Candidates must hand these reports in to the Computing Laboratory by **noon on Monday of week 5 of Trinity Term**.

Presentation of Practical Work: The practical work must be bound together in a single file (or packed in a single envelope) addressed to the Chairman of Examiners in Computer Science (or Mathematics and Computer Science as the case may be) and must be marked clearly on the outside with the candidate's name, examination number, and the Honour Moderations in which the candidate is being examined (either Computer Science, or Mathematics and Computer Science). This work must be accompanied by the Declaration Form provided.

Assessment of Practical Work: The practicals for all the courses will be assessed as a nominal sixth paper, which will be marked on a fail/pass/distinction scale. Practicals do <u>not</u> contribute to the classification of candidates but each candidate must pass the practical course in order to pass the examination. A candidate who fails the practical paper will fail Honour Moderations as a whole and will receive a marks penalty in Prelims; see Examination Conventions for details.

The examiners will determine a mark for the practical work associated with each computer science paper - taking into account the provisional mark assigned by the demonstrator and their own assessment of the work submitted.

The detailed procedure for assessing practical work is set out in the Examination Conventions but, broadly speaking, a candidate will pass the practical course if they have completed adequately (at Grade S) slightly more than half the practical work for the papers they are taking.

In order to achieve a distinction, students will have to have completed most of the more challenging parts of each practical and submitted a clear and well-argued report.

Medical certificates

If evidence of recent medical problems is presented to the examiners via the Proctors, they will take this into account in the classification process.

Results

The examiners hope to be able to post the pass list by Thursday 15th July 2010. Details of individual marks will be communicated to tutors.

Prelims

A Preliminary Examination (Prelim) is set for candidates who fail Moderations or are unable to sit Moderations; candidates enter for Prelims through their colleges and with the permission of their college. The Preliminary Examination consists of two papers:

- In Computer Science, Paper I is on the topics for papers CS1 and CS2 of Honour Moderations, and Paper II is on the topics for papers CS3, CS4 and M1(CS).

- In Mathematics and Computer Science, Paper I is on the topics for papers CS1 and CS2 of Honour Moderations, and Paper II is on the topics for papers M1, M2 and M3.

There is no practical part to the Prelims examination. Each paper will be of three hours' duration. All questions set will be of a straightforward nature.

Difficulties

Any candidate who encounters difficulties with any of the above should discuss the matter with his or her tutor without delay.

<div align="right">

H. Nickau
Chairman of Moderators
Honour Moderations in Computer Science
and Mathematics & Computer Science
(Trinity Term 2010)

</div>

Declaration form for Practical Work

This form is to be handed in with your practical work. The form must be signed.

I confirm that:

- I am aware of the University's disciplinary regulations concerning conduct in examinations and, in particular, of the regulations on plagiarism;
- the practical reports that I am submitting are entirely my own work except where otherwise indicated;
- I have not sought assistance from any professional agency.

Signature: Date:

Name   . . . .

College   . . . .

Candidate no.   . . . .

Honour school . . . .