

**Final Honour Schools of Computer Science,
Computer Science and Philosophy and
Mathematics and Computer Science**

Part B Examination 2020

Notice to Candidates from the Examiners in Computer Science

Purpose of this notice

Full particulars of the examinations are given in the Examination Regulations 2019, and the Examination Conventions for 2019/20 can be found at

<http://www.cs.ox.ac.uk/teaching/examconventions/bacompsci.html>

Candidates should also be aware of the safety net policy published at

<https://www.cs.ox.ac.uk/covid19-student-advice/Safety%20Net%20Policy%20Part%20B.pdf>

This notice is confined to matters that may need emphasis or amplification. It is addressed only to candidates in the Honour Schools of Computer Science, Computer Science & Philosophy and of Mathematics & Computer Science. If you are a candidate from another school (for example Mathematics) then you should refer for information to notices circulated by the chairmen of examiners in those schools.

The marking and classification scheme for finals is described in the Examination Conventions.

Independence of Examiners

Please note that you are not allowed to contact the examiners directly. Any communication must be via the Senior Tutor of your college, who will contact the Proctors if appropriate. The Proctors will in turn communicate with the Chair of Examiners.

Conduct of the examination

Examinations will be conducted via open-book examinations. The start time for your examination will depend on time zone and whether you have any alternative arrangements in place. Please see the advice on pages 6-7 of The Open Book Exams "Guidance for Candidates"

<https://www.ox.ac.uk/sites/files/oxford/Open%20book%20exams%20guide%20for%20candidates.pdf>

It is important that you understand that you understand that your exam time will start as soon as you click on the link to your examination paper, this is the equivalent of an invigilator saying "You may turn over the exam paper now".

Please note the following during the exam:

Candidates will have access to book and online resources during their exams. However, any disclosure of the exam contents to anyone else via private message or public postings will not be permitted. Similarly, seeking advice from another person during the exam will be forbidden.

Candidates are responsible for submitting their own work. They should not receive assistance in the process; whether downloading, photographing scripts, or uploading.

Queries during the examination:

It will not be possible to query the content of the exam paper during the exam. If you think that there is an error or mistake in your exam paper then you should state what you consider the error or mistake to be at the start of your answer for that question and if necessary, you should state your understanding of the question. You should then try to complete the paper as best you can

Calculators: The Regulations state that "The use of calculators is generally not permitted but certain kinds may be allowed for certain papers". Calculators will be permitted for **Mathematics for Computer Science and Philosophy (A17201W1)**. For this paper, you may use one calculator from the list of types that follows:

CASIO fx-83 (any model), fx-85 (any model),
SHARP EL-531 (any model)

Legibility: Please write legibly, in blue or black pen (not pencil). Illegible scripts, if they are to be considered by the examiners, will be typed at your expense. Please make sure that you retain a copy of your original submission in case you are required submit a second copy.

Timetable

You will receive your individual timetable in Student Self Service in due course.

Composition of papers

The details below are confined to Computer Science papers; similar details for papers under the control of other schools should be sought from those schools.

On each Computer Science paper you will see in the bottom right of the page "NEXT PAGE" where there is a following page. The final page of the exam paper has "LAST PAGE" printed on it. Please make sure you have seen all pages of the paper.

On all Computer Science papers there will be an indication of how many marks out of the total available are allocated to each part of each question. This is intended as a guide to candidates in allotting time and effort.

Paper Schedule S1	Number of questions	Maximum number of questions to be answered	Marks per question	Duration of exam
Artificial Intelligence	3	2	25	3 hours
Computational Complexity	3	2	25	3 hours
Computer-Aided Formal Verification	3	2	25	3 hours
Computer Architecture	3	2	25	3 hours
Computer Graphics	3	2	25	3 hours
Computer Networks	3	2	25	3 hours
Computer Security	3	2	25	3 hours
Concurrency	3	2	25	3 hours

Databases	3	2	25	3 hours
Geometric Modelling	3	2	25	3 hours
Knowledge Representation and Reasoning	3	2	25	3 hours
Lambda Calculus & Types	3	2	25	3 hours
Logic and Proof	3	2	25	3 hours
Machine Learning	3	2	25	3 hours
Maths for CS and Phil**	3	2	25	3 hours
Principles of Programming Languages	3	2	25	3 hours
Quantum Information	3	2	25	3 hours

**This paper will contain three questions: one on Linear Algebra, one on Continuous Mathematics, and one that may be on either subject or a combination of the two subjects. Candidates should answer two questions.

Open-Book Exams: Penalties for lateness

Penalties will be applied if you submit your exam response later than expected (including later than specified in agreed alternative arrangements).

If you experience any technical problems on the day, you must contact the support desk immediately at the point of the difficulty.

The penalties for late exam responses are: Time	Penalty
First 15 minutes	No penalty
16 minutes – 30 minutes	5 marks or 5% of the marks available (if not marked on 100 mark scale)
31 minutes – 45 minutes	10 marks or 10% of the marks available (if not marked on 100 mark scale)
Up to an hour	15 marks or 15% of the marks available (if not marked on 100 mark scale)
After one hour	Fail mark (0)

Practical work

Submitting your practical work: Due to the circumstances this year, we will not be asking candidates to submit signed reports. We will take the marks from our Minerva database, each candidate will be sent a record of their practical marks and will be asked to alert the department of any discrepancies.

Candidates are required to a 'Declaration form for practical work'. This declaration states that the work undertaken in your practicals was the sole work of the candidate, except for marks and comments by demonstrators and other material clearly indicated.

Assessment of Practical Work: 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.

Practicals do not contribute to the classification of candidates but each candidate must pass the practical course in order to pass the examination.

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 have chosen.

Project work – Computer Science candidates only

The Form of a Project Report: Computer Science candidates should consult page 184 of the Examination Regulations for directions on the form of the report. An example outline of a project report can be found in the Handbook Supplement under Section 3 at

<http://www.cs.ox.ac.uk/files/7645/Handbook%20supplement%202015%20v2.pdf>

Each project topic must have been approved by the Teaching Committee of the Department of Computer Science.

Software demonstrations: For projects that involve the production of software, supervisors will be asked to report whether or not they have seen the software working as intended. It is up to the supervisor and candidate to decide what form the demonstration of the program might take, and to ensure that time is set aside for a demonstration of the final outcome of the project.

Submission of Project Reports: Candidates must submit their project report to the Assignments section of the Computer Science Weblearn site by **noon on Monday of the fifth week of the Trinity Term** of your third year. The project report must be saved and uploaded as a PDF file of not more than 250MB. The report must not exceed 10,000 words plus forty pages of additional material (e.g. diagrams, program text). The word count may exclude any table of contents, all mathematical equations and symbols, diagrams, tables, bibliography and the texts of computer programs. However any preface, footnotes, and appendices must be included. Note that these figures are limits, not targets.

Late submission or failure to submit coursework

1. Under the provisions permitted by the regulations, late submission of coursework (i.e. project reports) where there are no extenuating circumstances may result in the following penalties:

Lateness (where the deadline is Monday at 12pm, noon)	Cumulative penalty
Up to 4 hours i.e. up to Monday 4pm	1%
4 - 24 hours i.e. up to Tues 12 noon	10%
24 – 48 hours i.e. up to Weds 12 noon	20%
48 – 72 hours i.e. up to Thurs 12 noon	30%
72 – 96 hours i.e. up to Fri 12 noon	40%
96 – 101 hours i.e. up to Fri 5pm	50%

The Proctors may also impose a late presentation fee on candidates for late submission of coursework. Failure to submit a required element of assessment will result in the failure of the whole of Part B.

Where permission for late submission has been granted by the Proctors, no penalty will be imposed.

Consideration of Mitigating Circumstances

Where candidates would like the examiners to be aware of any mitigating circumstances that may have affected their performance before or during an examination are advised to discuss their circumstances with their college and consult the Examination Regulations (Part 13). The final board of examiners will decide whether and how to adjust a candidate's results.

Further information can be found at <http://www.ox.ac.uk/students/coronavirus-advice/mitigating-circumstances>

The examiners in Part A may adjust the marks of a candidate in some papers in the light of this evidence, but will in any case pass on the evidence to the Part B examiners in the following year. The examiners in Part B will consider evidence relating to a candidate's performance both in Part A and in Part B. They also may adjust the marks for certain papers, and may in addition deviate in a candidate's favour from the usual relationship between average marks and degree classes, particularly when there is medical evidence relating to Part A, and the candidate's performance in Part B is markedly improved.

Results

The final examiners meeting is scheduled to be held between 23rd-27th July and the examiners hope to be able to publish results shortly after

Difficulties

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

Prof. T. Melham
Chairman of Examiners
Final Honour Schools of Computer Science,
Computer Science & Philosophy and
Mathematics & Computer Science
(Trinity Term 2020)