1 Introduction

Examination conventions are the formal record of the specific assessment standards for the course or courses to which they apply. They set out how examined work will be marked and how the resulting marks will be used to arrive at a final result and classification of an award. This document sets out the examination conventions for the M.Sc. in Mathematical Modelling and Scientific Computing for the academic year 2021-22. These examination conventions are approved annually by the Supervisory Committee for the M.Sc. in Mathematical Modelling and Scientific Computing and by the Graduate Studies Committee in the Mathematical Institute. The Board of Examiners may only make minor deviations from these conventions in exceptional circumstances and only after the consent of the Proctors. This document is in all ways subsidiary to the current:

- Examination Regulations;
- Policy and Guidance for Examiners and others involved in University Examinations.

2 Examiners

The board of examiners will consist of 4 internal members (2 from the Numerical Analysis Group and 2 from OCIAM/WCMB) and 1 external examiner. The examiners will appoint assessors to help with the assessment of the course. The internal examiners for the academic year 2021-22 will be Professor Jon Chapman (Chair), Professor Ruth Baker, Professor Coralia Cartis, and Professor Patrick Farrell, and the external examiner will be Professor Katerina Kaouri from the University of Cardiff.

Candidates should not, under any circumstances, seek to make contact with individual internal or external examiners.
3 Course Requirements

All students should complete 13 units. Each unit will carry the same weight. Marks will be given in terms of USMs (University Standardised Marks) out of 100 with the conventions: 0-49 fail; 50-64 pass; 65-69 merit; 70-100 distinction.

The 13 units that students should take and be assessed on are:

- 4 written examinations on core courses (1 unit each);
- 2 special topics: one labelled [M] and one labelled [C] (1 unit each);
- 1 case study in mathematical modelling (1 unit);
- 1 case study in scientific computing (1 unit);
- 1 dissertation and viva (4 units);
- 1 further special topic or case study (1 unit).

The USMs, weighted as above, are averaged to give an average USM. Any USMs with decimals of 0.5 and above will be rounded up to the nearest whole USM, and any USMs with decimals below 0.5 will be rounded down to the nearest whole USM.

4 Classification

Students will only be eligible for a distinction if they fulfil all the following criteria:

- Average USM \(\geq 70\);
- All partial USM \(\geq 50\);
- Dissertation and Viva USM \(\geq 70\).

Students who fulfil these criteria will usually be awarded a distinction.

Students who are not awarded a distinction, but who have passed all units of assessment with at most one exception and have an average USM of at least 65, will usually be awarded a merit.

Students who are not awarded a distinction or merit, but who have passed at least 10 units of assessment and have an average USM of at least 50, will be awarded a pass.

Otherwise, students will fail the course.

A student who fails the whole course may resit on one, but not more than one, subsequent occasion. This resit attempt shall normally be taken at the next opportunity, but may be deferred once, i.e. it must be taken at one of the next two opportunities. In such a case a student will not be eligible for a merit or distinction on the whole course. The examiners will specify at the time of failure which of the assessed components of the course may or must be redone. A candidate who resits a unit for which a technical fail mark was originally awarded
(a unit for which no work was submitted or a written examination was missed) will have the mark for that unit capped at 50.

No student who has satisfied the examiners in any one of the examinations may enter again for the same examination.

If a student fails one particular unit, there is no provision for the candidate to resit that unit during the same academic year.

5 Class Descriptors

Qualitative class descriptors for the levels of performance are summarised below.

**Distinction:** High quality work throughout the course. The candidate shows excellent knowledge of the material over a wide range of topics. The criteria for USMs in the distinction band are:

- 90-100: The candidate shows remarkable ability and true insights. In particular, dissertations in this band will be worthy of publication without the need for further mathematical investigation and without the need for significant re-writing of the text.
- 80-89: The candidate shows outstanding problem-solving skills and outstanding knowledge of the material over a wide range of topics, and is able to use that knowledge innovatively and/or in unfamiliar contexts.
- 70-79: The candidate shows excellent problem-solving skills and excellent knowledge of the material over a wide range of topics, and is able to use that knowledge innovatively and/or in unfamiliar contexts.

**Merit:** The candidate shows very good quality of work throughout the course. Candidates who achieve a merit will have demonstrated very good problem solving skills and knowledge over a wide range of topics, or excellent command of some material and good command of the rest.

**Pass:** The pass covers a wide range of results from candidates who show adequate knowledge of most of the material to candidates who show good or very good knowledge of much of the material over a wide range of topics. The criteria for USMs in the pass band are:

- 60-64: The candidate shows good or very good problem-solving skills, and good or very good knowledge of much of the material over a wide range of topics.
- 50-59: The candidate shows basic problem solving skills and adequate knowledge of most of the material.

**Fail:** The candidate shows inadequate grasp of the basic material. Candidates may have shown some understanding but the majority of work is likely to show major misunderstanding and confusion, and/or inaccurate calculations.
• 40-49: The candidate shows reasonable understanding of at least part of the basic material and some problem solving skills. Although there may be some good work, the majority of work will contain errors in calculations and/or show incomplete understanding of the topics.

• 30-39: The candidate shows some limited grasp of basic material over a restricted range of topics, but with large gaps in understanding. There need not be any good quality work, but there will be indications of some competence.

• 0-29: The candidate shows inadequate grasp of the basic material. The work is likely to show major misunderstanding and confusion.

6 Individual Units of Assessment

Once a piece of work has been submitted, it cannot be withdrawn. Students may not submit work for assessment for more than 13 units. Below is a description of the different units on the course and how they are assessed.

Core Courses (1 unit each) The core courses will be taught in Michaelmas and Hilary Terms and will be assessed by four written examinations, two in Week 0 of Hilary Term and two in Week 0 of Trinity Term. The examinations will be open book examinations and will be administered online. The examinations must be completed during a period of three hours’ duration. Of this time, it is expected that two hours and 30 minutes will be spent on the examination and the other 30 minutes should be spent downloading the exam paper and then scanning handwritten solutions and uploading them at the end. All examinations will consist of six questions, split into two or three sections. Each question is marked out of 25 according to an approved marking scheme and these marks are independently checked to ensure that all parts have been marked and that the marks have been correctly totalled and recorded. A mark of zero will be recorded for any part or parts of questions that have not been answered but which should have been answered. Candidates may attempt as many questions as they wish. Each student’s raw mark consists of their best mark from each section and their other best marks (two further marks if there are two sections, one further mark if there are three sections). If a student has not attempted a question from one section, their raw mark will consist of their best three marks from the other sections. (In the case where there are three sections and a student has only attempted questions from one section, the raw mark consists of the best two marks from that section.) The examiners exercise their academic judgment to recalibrate the raw marks to arrive at USMs as described in Section 16 at the end of this document.

Special topics (1 unit each) Each student must do at least one special topic in the area of Modelling [M] and one in the area of Computation [C]. Special topics are assessed by mini-projects of approximately 15 pages in length (up to a maximum of 20 pages without penalty) which are independently marked by two assessors, usually the course lecturer and another member of faculty. These two marks are then reconciled as described in Section 7. The final USMs are then awarded by the examiners based on the reconciled raw marks. Students who have studied in Oxford previously may not undertake a special topic based on a lecture course on which they have been assessed during their previous degree course.
Case Studies in Mathematical Modelling and in Scientific Computing (1 unit each)
Each student must do at least one mathematical modelling case study and at least one scientific computing case study. Each scientific computing case study involves 4 weeks of group work, further personal study and an individual written report. The report is independently marked by two assessors, usually the lecturer and another member of faculty. A mark out of 75 is awarded for the write-up of the group work and a mark out of 25 is awarded for the write-up of the student’s individual extension. (If the student has not extended the project, they are given a mark of zero for this part of the project.) These marks are then reconciled as described in Section 7. Each mathematical modelling case study involves 6 weeks of group work, a group oral presentation and an individual written report. The presentations are given a mark out of 20 (agreed by at least two assessors) and the reports are marked out of 100, normally by the course convenor and the group leader (or another member of faculty if these are the same person). The reconciled mark for the written report is then multiplied by 0.8 and added to the presentation mark to give a raw mark for the unit. Marks with decimals of 0.5 and above will be rounded up to the nearest whole mark, and marks with decimals below 0.5 will be rounded down. The final USMs for the case studies are awarded by the examiners based on the recommended and reconciled raw marks.

Dissertation and viva (4 units) The main body of the dissertation should be 40-50 pages long (including figures and tables and up to a maximum of 54 pages without penalty), and need not necessarily contain original research. The dissertation is read and marked by two internal assessors/examiners, neither of whom is the student’s supervisor and at least one of whom is an examiner. The dissertations of a number of students, typically including a selection of those at the pass/fail or merit/distinction borderlines, are also read by the external examiner. All students will also be examined viva voce. The assessors for the viva voce examination will be the examiners who have read the dissertation. The supervisors will propose a 10 mark range for the dissertation along with a statement of justification for this range which the exam board will take into account when confirming the final mark. The assessors for each dissertation will have a discussion to try to agree a final mark for the dissertation. However, if they are unable to agree a mark, the decision will be referred to the other examiners. The USM marks will include credit for originality and performance in the viva.

Agreed final marks for individual units of assessment will be expressed using the scale shown in Table 1 below.

<table>
<thead>
<tr>
<th>Mark Range</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>70–100</td>
<td>Distinction</td>
</tr>
<tr>
<td>65–69</td>
<td>Merit</td>
</tr>
<tr>
<td>50–64</td>
<td>Pass</td>
</tr>
<tr>
<td>0–49</td>
<td>Fail</td>
</tr>
</tbody>
</table>

Table 1: Classification for individual units of assessment.
7 Reconciliation of Special Topic and Case Study Marks

Special topics and case studies are independently marked by two assessors. If the assessors’ marks do not differ by more than 10, the final mark will usually be the average of the two marks (rounded up to the nearest whole mark if necessary). However, if the marks are on opposite sides of the pass/fail borderline or differ by more than 10 marks there will be further discussion between the assessors in order to try to reach a decision on a final mark. In the unlikely event the two assessors are unable to agree on a mark the examiners will be consulted and, if necessary, a third assessor appointed in order to help make a final decision on the mark.

8 Usage of Formative Feedback

Those who mark the case studies and special topics are encouraged to give comments providing constructive feedback on the projects they marked. After being approved by the Chair of Examiners on behalf of the Examination Board, and after the results have been released, this feedback is passed on to the students in the hope it will help them to improve future project work. In addition students will receive feedback on their dissertations after the final results have been released. Students will also receive feedback on non examined work during the first two terms. This will take the form of comments on students’ solutions to problem sheets submitted for the core courses.

9 Examination Conduct

Students will receive advice from the examiners before their first examination in the form of a Notice to Candidates. This notice provides information on the conduct of the examinations including practical arrangements and procedures in the case of illegible or incomplete scripts and illness. Notices from examiners can be found on the Mathematical Institute’s website at: [https://www.maths.ox.ac.uk/members/students/postgraduate-courses/msc-mmsc](https://www.maths.ox.ac.uk/members/students/postgraduate-courses/msc-mmsc)

It is not necessary to wear sub fusc for the written examinations, although sub fusc is required for the viva voce examinations.

10 Penalties for Non-Attendance

Rules governing non-attendance at examinations and any consequent penalties are set out in full in the Examination Regulations (Regulations for the Conduct of University Examinations, Part 14). If a student will be prevented by illness or other urgent cause from sitting one of their examinations they should contact their college office or college advisor as soon as possible. Any case of non-attendance at an examination involving illness or other medical condition will require written medical evidence and will usually be referred by the college to the Proctors.
If the Proctors do not believe there are satisfactory reasons for non-attendance, or an applica-
tion to the Proctors has not been submitted, a candidate will be awarded a mark of zero for that examination. The mark for any resit of the examination will be capped at 50. Such a resit is only available once to candidates who initially fail the whole M.Sc. course.

11 Penalties for Late Submission of Open Book Examination Solutions

Candidates should upload their submission within the time allowed for their open-book examination. Candidates who access the paper later than the published start time (and who do not have an agreed alternative start time) will still need to finish and submit their work within the originally published timeframe or be considered to have submitted late. Candidates who access the paper on time but who submit their work after the published timeframe will also be considered to have submitted late. Where candidates submit their examination after the end of the specified timeframe and believe they have a good reason for doing so, they may submit a mitigating circumstances notice to examiners to explain their reasons for the late submission. The Exam Board will consider whether to waive the penalties for late submission.

The penalties will be applied at the paper level and are shown in Table 2 below. Penalties will only be applied after the work has been marked and the Exam Board has checked whether there are any valid reasons for late submission.

<table>
<thead>
<tr>
<th>Lateness</th>
<th>Penalty</th>
</tr>
</thead>
<tbody>
<tr>
<td>First 5 minutes</td>
<td>No penalty</td>
</tr>
<tr>
<td>6 minutes or more</td>
<td>Fail (mark of 0 awarded)</td>
</tr>
</tbody>
</table>

Table 2: Penalties for late submission of solutions to written examinations.

12 Penalties for Late Submission of Coursework

Late Submission of Coursework for the M.Sc. in Mathematical Modelling and Scientific Computing (this includes case studies, special topics and the dissertation) is a serious matter and will usually result in financial and academic penalties unless prior permission for late submission has been given by the Proctors. In the absence of such Proctorial permission, the financial penalty will take the form of a late submission fee and the academic penalties will be as set out in Tables 3 and 4 below. (Note that if the late submission penalty is higher than the mark for the submission, a candidate will be awarded a mark of zero.) Note that deadlines for special topics and case studies are assumed to be on Mondays at 12 noon and the deadline for the dissertation will be Wednesday at 12 noon.

Where no work is submitted, the Proctors may decide not to permit the candidate to continue on the M.Sc. course. If the Proctors permit the candidate to continue on the M.Sc. course, a mark of zero will be awarded for that particular piece of work. The mark for any resit of
Table 3: Penalties for late submission of special topics and case studies.

<table>
<thead>
<tr>
<th>Lateness of special topic or case study</th>
<th>Penalty (USMs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 4 hours, i.e. up to Monday 4pm</td>
<td>1</td>
</tr>
<tr>
<td>4-24 hours, i.e. up to Tuesday 12 noon</td>
<td>5</td>
</tr>
<tr>
<td>24-48 hours, i.e. up to Wednesday 12 noon</td>
<td>10</td>
</tr>
<tr>
<td>48-72 hours, i.e. up to Thursday 12 noon</td>
<td>20</td>
</tr>
<tr>
<td>72-96 hours, i.e. up to Friday 12 noon</td>
<td>30</td>
</tr>
<tr>
<td>96 hours-7 days</td>
<td>40</td>
</tr>
<tr>
<td>7-14 days</td>
<td>50</td>
</tr>
<tr>
<td>More than 14 days</td>
<td>fail (mark of 0 awarded)</td>
</tr>
</tbody>
</table>

Table 4: Penalties for late submission of the dissertation.

<table>
<thead>
<tr>
<th>Lateness of dissertation</th>
<th>Penalty (USMs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 4 hours, i.e. up to Wednesday 4pm</td>
<td>1</td>
</tr>
<tr>
<td>4-24 hours, i.e. up to Thursday 12 noon</td>
<td>5</td>
</tr>
<tr>
<td>24-48 hours, i.e. up to Friday 12 noon</td>
<td>10</td>
</tr>
<tr>
<td>48 hours-5 days, i.e. up to Monday 12 noon</td>
<td>20</td>
</tr>
<tr>
<td>5-6 days, i.e. up to Tuesday 12 noon</td>
<td>30</td>
</tr>
<tr>
<td>6-7 days</td>
<td>40</td>
</tr>
<tr>
<td>More than 7 days</td>
<td>fail (mark of 0 awarded)</td>
</tr>
</tbody>
</table>

the assessment will be capped at 50. Such a resit is only available once to candidates who initially fail the whole M.Sc. course.

13 Penalties for Submissions Exceeding the Page Limits

Submissions exceeding the pages limits will be assessed in the usual way and then penalties applied as indicated in Tables 5 and 6 below. Note that for special topics and case studies in scientific computing the page limit is 20 pages and for case studies in mathematical modelling the page limit is 16 pages.

Table 5: Penalties for special topics and case studies exceeding the page limit.

<table>
<thead>
<tr>
<th>Number of pages in excess of limit for special topics and case studies</th>
<th>Penalty (USMs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 page</td>
<td>1</td>
</tr>
<tr>
<td>2 pages</td>
<td>5</td>
</tr>
<tr>
<td>3 pages</td>
<td>10</td>
</tr>
<tr>
<td>4 pages</td>
<td>20</td>
</tr>
<tr>
<td>5 pages</td>
<td>30</td>
</tr>
<tr>
<td>6 pages</td>
<td>40</td>
</tr>
<tr>
<td>7 pages or more</td>
<td>50</td>
</tr>
<tr>
<td>Length of dissertation</td>
<td>Penalty (USMs)</td>
</tr>
<tr>
<td>------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>55-56 pages</td>
<td>1</td>
</tr>
<tr>
<td>57-58 pages</td>
<td>5</td>
</tr>
<tr>
<td>59-60 pages</td>
<td>10</td>
</tr>
<tr>
<td>61-62 pages</td>
<td>20</td>
</tr>
<tr>
<td>63-64 pages</td>
<td>30</td>
</tr>
<tr>
<td>65-66 pages</td>
<td>40</td>
</tr>
<tr>
<td>67 pages or more</td>
<td>50</td>
</tr>
</tbody>
</table>

Table 6: Penalties for dissertations exceeding the page limit.

14 Alternative Examination Arrangements and Mitigating Circumstances Notices to Examiners

A candidate in any University Examination with specific learning difficulties or disability/illness may apply through the Senior Tutor of their college for alternative examination arrangements relating to their condition. For further information on the process please see [http://www.ox.ac.uk/students/academic/exams/arrangements](http://www.ox.ac.uk/students/academic/exams/arrangements).

Candidates who would like the examiners to be aware of any factors 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). Candidates should complete the form entitled mitigating circumstances notices to examiners and send this to their college with appropriate supporting material. The candidate’s college will submit the application for forwarding to the relevant Chair of Examiners. A candidate’s final outcome will first be considered using the classification rules as described above in Section 4. The exam board will then consider any further information they have on individual circumstances.

The board of examiners will use the following procedure for the consideration of medical and other special circumstances transmitted to them via the Examinations and Assessments Section:

a) A subset of the board will meet to discuss the individual applications and band the seriousness of each application on a scale of 1–3 with 1 indicating minor impact, 2 indicating moderate impact, and 3 indicating very serious impact. When reaching this decision, examiners will take into consideration the severity and relevance of the circumstances, and the strength of the evidence. Examiners will also note whether all or a subset of papers were affected, being aware that it is possible for circumstances to have different levels of impact on different papers.

b) The banding information will be used at the final board of examiners meeting to adjudicate on the merits of candidates;

c) A brief, formal record will be kept confirming (i) the fact that information about special circumstances has been considered by the examiners, (ii) how that information has been considered, and (iii) the outcome of the consideration with the reasons for the decisions reached.
Further information on how to submit Mitigating Circumstances Notices to Examiners is available at [https://www.ox.ac.uk/students/academic/exams/guidance](https://www.ox.ac.uk/students/academic/exams/guidance). Some examples of mitigating circumstances that may have impacted on a student’s performance in an examination or during the preparation of coursework include acute illness or unforeseen circumstances such as a traffic accident or bereavement.

### 15 Plagiarism

All the assessors for the course will be alert to the possibility of plagiarism in written reports. If an assessor, or a Turnitin report generated in the course of examination procedures, raises concerns about the proper attribution of a passage or piece of submitted work, the matter will be reported to the Chair of Examiners. If the extent of the material affected is a small proportion of the whole (usually under 10%), this will be dealt with by the board of examiners. More serious cases will be referred to the Proctors.

Where the Chair finds that the matter can be dealt with by the Board, assessors will mark the work on its academic merits. The Board will then deduct marks for derivative or poorly referenced work. Boards are free to operate marks deductions of between 1 and 10% (maximum) of the marks available for that particular piece of work.

When students take an open book exam, they will be required to sign up to an ‘honour code’. This will confirm that they have understood and abided by the University’s rules on plagiarism and collusion (see [https://www.ox.ac.uk/students/academic/exams/open-book/honour-code](https://www.ox.ac.uk/students/academic/exams/open-book/honour-code)).

### 16 Scaling of Examination Marks

The Examiners may choose to scale marks for the written examinations where, in their academic judgement:

a) a paper was more difficult or easy than in previous years, and/or

b) a paper has generated a spread of marks which are not a fair reflection of student performance on the University’s standard scale for the expression of agreed final marks, i.e. the marks do not reflect the qualitative marks descriptors.

Such scaling is used to ensure that candidates’ marks are not advantaged or disadvantaged by any of these situations. In each case, examiners will establish if they have sufficient evidence for scaling. Scaling will only be considered and undertaken after marking of a paper has been completed, and a complete run of marks for all papers is available.

If it is decided that it is appropriate to use scaling, the examiners will review a sample of papers either side of the classification borderlines to ensure that the outcome of scaling is consistent with academic views of what constitutes an appropriate performance within each class.
Appendices

A Criteria for Individual USMs

A.1 Criteria for Special Topic and Case Study USMs

90–100: Work of potentially publishable standard, as evidenced by originality or insight. The work should show depth and accuracy, and should have a clear focus.

80–89: Work in this range will be at the level of a strong candidate for a DPhil applicant. It will have depth, accuracy and a clear focus. It will show a strong command of material. It may contain original material, which may take the form of new examples, new calculations, or new mathematical propositions, for example.

70–79: The work submitted is of a generally high order, with depth, clarity and accuracy, but may have minor errors in content and/or deficiencies in presentation.

60–69: The candidate shows a good grasp of their subject, but without the command and clarity required for distinction level marks. Presentation, referencing and bibliography should be good, and the mathematics should have no more than minor errors.

50–59: The work shows an adequate grasp of the subject, but is likely to be marred by having material at too low a level, by serious or frequent errors, a high proportion of indiscriminate information, or poor presentation and references.

40–49: The candidate shows reasonable understanding of parts of the basic material, but reveals an inadequate competence with others. The material may be at too low a level. There are likely to be high levels of error or irrelevance, muddled or superficial ideas, or very poor writing style.

30–39: The candidate shows some limited grasp of at least part of the material.

0–29: Little evidence of understanding of the topic. The work is likely to show major misunderstanding and confusion.

A.2 Criteria for Dissertation USMs

90–100: The candidate shows remarkable ability and true insights. The dissertation shows considerable evidence of original thought and is very well presented with no important deficiencies. Dissertations in this band will be likely to be worthy of publication without the need for further mathematical investigation and without the need for significant re-writing of the text.

80–89: Work in this range will be at the level of a strong candidate for a DPhil applicant. It will have depth, accuracy and a clear focus. It will show a strong command of material at least at the MSc level. It is likely to contain original material, which may take the form of new mathematical propositions, new examples, or new calculations, for example.
70–79: The candidate shows excellent problem-solving skills and excellent knowledge of the area of their dissertation. The dissertation shows evidence of original thought and is well presented.

60–69: The candidate shows a strong overall performance but with some weaknesses. Typically the work has been carried out and presented and analysed reasonably well, especially at the merit level.

50–59: The candidate has performed satisfactorily but there are weaknesses in the dissertation. Although there will be some good work in the dissertation, typically there will be some flaws and there will be little evidence of originality.

40–49: The candidate has not performed satisfactorily. Although there may be some good work in the dissertation, either there will be significant errors or the content will be insufficient.

30–39: The candidate has performed poorly. There need not be any good quality work in the dissertation, but there will be indications of some competence.

0–29: A dissertation in this band is likely to contain little or no meaningful content.

B Protocol for Setting Examination Papers

Each paper should be drafted by the appropriate lecturer, and checked by a qualified person.

C Form of Questions

Each question will be marked out of 25 and should be divided into two to four parts. An indication of the raw marks available for each part of each question should be given on the question paper.

C.1 Checklist for Setters and Checkers

Those who are asked to supply draft exam questions will be provided with a checklist of important considerations.

- Is the question on the syllabus (as in the Exam Regulations or Course Handbook (including the Lecture Synopses))? 
- Is the mathematics correct?
- Is the notation and terminology standard/obvious/defined? (Standard usage from the course is acceptable without explanation but phrases such as “as in the lectures” should be avoided.)
- Is the question unambiguous? Is it clear what may be assumed, what detail is required, and what would constitute a complete answer?
- Is the form of presentation familiar/inviting/readable?
• Does each question have an easy start, worth at least 10 marks, which might be readily and routinely completed? This should not wholly be testing memory of previous material explicitly seen.
• Is it the case that only exceptional students are capable of gaining full marks?
• Is each question overall of a straightforward character?
• Are the questions as a whole fairly spread across the syllabus?
• Are the questions as a whole of a similar general nature to questions in previous years?
• Are the questions as a whole of comparable standard to other questions this year?
• Are the questions of comparable difficulty to one another?
• Are the questions sufficiently different from those set in recent years?
• Does the question, adequately spaced, fit on a single page?
• Is the question suitable for an online, open book examination? In particular, it should not be possible to answer bookwork parts simply by a copy and paste from readily available material.
• Have you ensured that the question cannot be answered, in full or in part, by simply searching in the lecture notes, problem sheets, the recommended textbooks, or by a google search?
• Have you made sure your questions cannot be answered, in full or to a large degree, using a computer (simulation, scientific computing software etc.)?
• Are equations that are referred to referred to by number rather than “the equation above” or “the algorithm” etc?
• Is the question formatted using the oxmathexam.cls file?