

## MAS221 ANALYSIS 2017-2018 EXAM INFORMATION

**Duration:** 2 hours 30 minutes.

**Format:** Answer all 4 questions. Questions 1 and 2 relate to Semester One and Questions 3 and 4 relate to Semester Two.

**Module assessment:** The exam is worth 90% of the credit for this module. The remaining 10% comes from the online tests and the homework hand-ins.

**Content:**

- The paper covers all of the material that was taught and aims to test the main ideas in the syllabus. The strike action had some effect on material covered in Semester Two - please see the course webpage for full notes of the material actually taught this year.
- It is very important to know the key definitions and you should learn these carefully.
- The same applies to statements of theorems, lemmas, corollaries and propositions.
- The emphasis of the exam is on examples not on proofs. The homework problems provide a good guide to the kinds of things you may be asked, and we recommend that you put these at the forefront of your revision.
- You will not be asked to reproduce any proofs from the notes in the exam. But you will need to be able to give standard types of arguments and use theorems to solve problems. So we recommend that you read the proofs when preparing, so that you are familiar with the types of arguments used, but it is not necessary to learn them by rote.

**Past papers:**

- Past papers are available via the SoMaS webpages at [http://maths.dept.shef.ac.uk/math/past\\_papers.html](http://maths.dept.shef.ac.uk/math/past_papers.html) (for the past three years, since that is how long the module has been running in its current form).
- The solutions to the two most recent papers will be made available on the course webpage two weeks before the exam.

- This year we dropped material on functions of several variables and on open and closed sets in  $\mathbb{R}^n$ , so you should ignore parts of old exam papers covering this material.
- You might wish to look at past papers from the old module MAS207 Continuity and Integration, which covered much of the same material.

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