MAST30012 Discrete Mathematics

About the Exam

Sanming Zhou
School of Mathematics and Statistics
The University of Melbourne

MAST30012 Exam

- Zoom-supervised exam
- Reading time: 30 minutes (including printing time)
- Writing time: 3 hours
- Upload time: 30 minutes
- Total mark: 160

About the Final Exam page
`https://canvas.lms.unimelb.edu.au/courses/108498/pages/about-the-final-exam`
contains information and advice on Zoom-supervised exams. Read carefully!

Authorised / unauthorised materials

- Closed-book exam
  - No books, notes or other printed or handwritten material are permitted.
  - No cheat sheets are allowed.
  - No material on the internet can be used.
  - No calculators are permitted.
  - No headphones or earphones are permitted.
  - Pens, pencils, rubbers and rulers may be used.

Pre-exam consultations

- Sanming
  - 11:00–13:00 (AEST) Friday 5 November
  - 14:00–16:00 (AEST) Friday 5 November
  - Zoom link: TBA
- Tutor
  - 14:00–16:00 (AEST) Monday 8 November
  - Zoom link: TBA

What is not in the exam

- Intermediate Value Theorem [Section 30, LN]
- Brouwer Fixed Point Theorem [Section 32, LN]
  (However, Sperner's Lemma and its applications may be examined.)
- Asymptotics from generating functions [Section 45, LN]
  (However, generating functions themselves may be examined.)
- Generating function via changes of variables [Part of Section 46, p.116 LN]
  (However, Motzkin paths themselves may be examined.)
- Surface returns [Part of Section 47, pp.117–119 LN]
  (However, Dyck paths themselves may be examined.)
- Parenthesised expressions [Section 48, LN]
- Error-correcting codes [Section 73, LN]
- Pattern avoiding permutations [Section 74, LN]
  (However, permutations themselves may be examined.)
- Rubik's cube [Section 75, LN]

What might be in the exam: everything else!

- everything else
- everything else
- everything else

Tips

- Lecture notes: Read carefully
- Practice class sheets: Work through all questions
- Previous exam papers: Two are available on the LMS. More exam papers on Library website.

- Revision problems: A set of revision problems (with answers) will be released soon
- Presentation of solutions: Present your solutions in a clear, logical, precise and succinct way

- Marks: Marks will be deducted for incomplete working, insufficient justification, unclear proofs or incorrect notation