

**School of Mathematical & Physical Sciences
Department of Mathematics
Examinations Rubrics**

Rubric 1

ATTEMPT ALL QUESTIONS. Candidates must use the answer book provided to write their answers.

Each question carries TEN marks. The numbers beside the questions indicate the approximate marks that can be gained from the corresponding parts of the questions.

- Further Mathematics: Autumn – 1 hour
Spring – 2 hours

Rubric 2

ATTEMPT ALL QUESTIONS. Candidates must use the answer book provided to write their answers.

Time allowed: TWO hours.

Each question carries TWENTY marks. The numbers beside the questions indicate the approximate marks that can be gained from the corresponding parts of the questions.

- Analysis 1
- Calculus
- Discrete Mathematics
- Geometry
- Introduction to Pure Mathematics
- Linear Algebra
- Mathematics in Everyday Life
- Numerical Analysis 1
- Statistics and Decision Mathematics

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Rubric 3

You may attempt as many questions as you wish, but marks will be given for the best THREE answers only. Candidates must use the answer book provided to write their answers.

Time allowed: TWO hours.

Each question carries THIRTY marks. The numbers beside the questions indicate the approximate marks that can be gained from the corresponding parts of the questions.

- Advanced Numerical Analysis
- Advanced PDEs
- Algebra
- Analysis 2
- Calculus of Several Variables
- Coding Theory
- Complex Analysis
- Continuum Mechanics
- Cryptography
- Differential Equations
- Differential Geometry
- Dynamical Systems
- Financial Computing with MATLAB
- Financial Mathematics
- Functional Analysis
- Introduction to Mathematical Biology
- Introduction to Probability
- Linear Statistical Models
- Mathematical Fluid Mechanics
- Measure & Integration
- Medical Statistics
- Numerical Analysis 2
- Numerical Solutions of PDEs
- Optimal Control of PDEs
- Partial Differential Equations
- Perturbation Theory and Calculus of Variations
- Probability & Statistics
- Probability Models
- Random Processes
- Statistical Inference
- Topology & Advanced Analysis

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Exam papers which do NOT permit the use of calculators:

Autumn:

- Algebra
- Analysis 2
- Calculus
- Financial Computing with MATLAB
- Functional Analysis
- Geometry
- Introduction to Mathematical Biology
- Introduction to Probability
- Measure & Integration
- Partial Differential Equations
- Topology and Advanced Analysis

Spring:

- Advanced PDEs
- Analysis 1
- Coding Theory
- Complex Analysis
- Continuum Mechanics
- Differential Equations
- Differential Geometry
- Dynamical Systems
- Further Mathematics
- Linear Algebra
- Mathematical Fluid Mechanics
- Numerical Solution of PDEs
- Optimal Control of PDEs
- Perturbation Theory and Calculus of Variations
- Random Processes