

MAT3

MATHEMATICAL TRIPOS **Part III**

Friday, 2 June, 2023 1:30 pm to 3:30 pm

PAPER 109

COMBINATORICS

Before you begin please read these instructions carefully

Candidates have **THREE HOURS** to complete the written examination.

Attempt no more than **THREE** questions.

There are **FOUR** questions in total.

The questions carry equal weight.

STATIONERY REQUIREMENTS

Cover sheet

Treasury tag

Script paper

Rough paper

SPECIAL REQUIREMENTS

None

**You may not start to read the questions
printed on the subsequent pages until
instructed to do so by the Invigilator.**