

MAT3

MATHEMATICAL TRIPOS

Part III

Tuesday 10 June 2025 9:00 am to 12:00 pm

PAPER 101

COMMUTATIVE ALGEBRA

Before you begin please read these instructions carefully

Candidates have THREE HOURS to complete the written examination.

Attempt no more than **FOUR** questions.

There are **FIVE** questions in total.

The questions carry equal weight.

The term *ring* stands for a commutative unital ring, and
the term *module* stands for a module over such a ring.

STATIONERY REQUIREMENTS

Cover sheet

Treasury tag

Script paper

Rough paper

SPECIAL REQUIREMENTS

None

<p>You may not start to read the questions printed on the subsequent pages until instructed to do so by the Invigilator.</p>
--