

MAT3

**MATHEMATICAL TRIPOS**      **Part III**

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Friday 31 May 2024    9:00 pm to 12:00 pm

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**PAPER 102**

**LIE ALGEBRAS AND THEIR REPRESENTATIONS**

**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.

**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.**