



Tuesday 4 June 2024 – Afternoon

A Level Mathematics B (MEI)

H640/01 Pure Mathematics and Mechanics

Time allowed: 2 hours

You must have:

- the Printed Answer Booklet
- a scientific or graphical calculator

QP

INSTRUCTIONS

- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided in the **Printed Answer Booklet**. If you need extra space use the lined pages at the end of the Printed Answer Booklet. The question numbers must be clearly shown.
- Fill in the boxes on the front of the Printed Answer Booklet.
- Answer **all** the questions.
- Where appropriate, your answer should be supported with working. Marks might be given for using a correct method, even if your answer is wrong.
- Give your final answers to a degree of accuracy that is appropriate to the context.
- The acceleration due to gravity is denoted by gms^{-2} . When a numerical value is needed use $g = 9.8$ unless a different value is specified in the question.
- Do not send this Question Paper for marking. Keep it in the centre or recycle it.

INFORMATION

- The total mark for this paper is **100**.
- The marks for each question are shown in brackets [].
- This document has **12** pages.

ADVICE

- Read each question carefully before you start your answer.

June 2013 Maths Mark Scheme Ocr

Lingjun Ying



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exercises Build connections between topics with points of interest and things to notice such as links to real world examples and noticing patterns in the mathematics Ensure targeted development of problem solving proof and modelling with dedicated sections on these key areas Help students to overcome misconceptions and develop insight into problem solving with annotated worked examples Enhance individual understanding with discussion points designed for the classroom and end of chapter summaries of the key points Tackle the new statistics requirements with five dedicated statistics chapters and questions around the use of large data sets Address the use of technology in Mathematics with a variety of questions based around the use of spreadsheets graphing software and graphing calculators Provide clear paths of progression that combine pure and applied maths into a coherent whole Reinforce Year 1 content with short review chapters Year 2 only *Decision 1 for OCR* Janet Crawshaw, Janet Dangerfield, 2005 Focused revision to improve learning for AS and A2 OCR

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