OCR
Oxford Cambridge and RSA

Tuesday 19 October 2021 – Afternoon
AS Level Further Mathematics B (MEI)
Y415/01 Mechanics b
Printed Answer Booklet

Time allowed: 1 hour 15 minutes

You must have:
- Question Paper Y415/01 (inside this document)
- the Formulae Booklet for Further Mathematics B (MEI)
- a scientific or graphical calculator

Please write clearly in black ink. **Do not write in the barcodes.**

Centre number [ ][ ][ ][ ][ ]   Candidate number [ ][ ][ ][ ]

First name(s) _____

Last name _____

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**. You can use extra paper if you need to, but you must clearly show your candidate number, the centre number and the question numbers.
- 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 $g\,\text{m s}^{-2}$. When a numerical value is needed use $g = 9.8$ unless a different value is specified in the question.

INFORMATION
- This document has **12** pages.

ADVICE
- Read each question carefully before you start your answer.

OCR is an exempt Charity

Turn over

1(a)

(answer space continued on next page)

1(a) (continued)

1(b)

2(a)

2(b)

3(a)

3(a)

3(b)

4(a)

4(b)

(answer space continued on next page)

4(b)	(continued)

4(c)	

4(d)	

Turn over

5(a)

5(b)

(answer space continued on next page)

5(b) | **(continued)**

5(c)

5(d)

5(e)

Turn over

6(a)

6(b)

Turn over

6(c)

6(d)