OCR
Oxford Cambridge and RSA

Wednesday 21 October 2020 – Afternoon

A Level Further Mathematics A

Y543/01 Mechanics

Printed Answer Booklet

Time allowed: 1 hour 30 minutes

8319427161

You must have:
- Question Paper Y543/01 (inside this document)
- the Formulae Booklet for A Level Further Mathematics A
- a scientific or graphical calculator

Y543001

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**. If you need extra space, use the lined pages at the end of the Printed Answer Booklet. The question numbers must be clearly shown.
- 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 non-exact numerical answers correct to 3 significant figures unless a different degree of accuracy is specified in the question.
- The acceleration due to gravity is denoted by $g\,\text{m}\,\text{s}^{-2}$. When a numerical value is needed use $g = 9.8$ unless a different value is specified in the question.

INFORMATION
- This document has **16** pages.

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

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1(a)

1(b)

1(c)

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2

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3(a)

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4(a)

4(b)

4(c)

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4(d)

4(e)

4(f)

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5(a)

5(b)

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6(a)

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6(a) **(continued)**

6(b)

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7(a)

7(b)

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7(c)

7(d)

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8(a)

8(b)

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8(b)	**(continued)**
8(c)	
8(d)	
8(e)	

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ADDITIONAL ANSWER SPACE

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).

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