OCR
Oxford Cambridge and RSA

Thursday 16 May 2024 – Afternoon

AS Level Mathematics B (MEI)

H630/01 Pure Mathematics and Mechanics

Printed Answer Booklet

Time allowed: 1 hour 30 minutes

AB

You must have:
- Question Paper H630/01 (inside this document)
- 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**. 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 your final answers to a degree of accuracy that is appropriate to the context.
- The acceleration due to gravity is denoted by $g\,\text{m}\,\text{s}^{-2}$. 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.

1	
2	

3

4

5(a)

5(b)

6(a)

6(b)

$b =$

$c =$

6(c)

7(a)

7(b)

7(c)

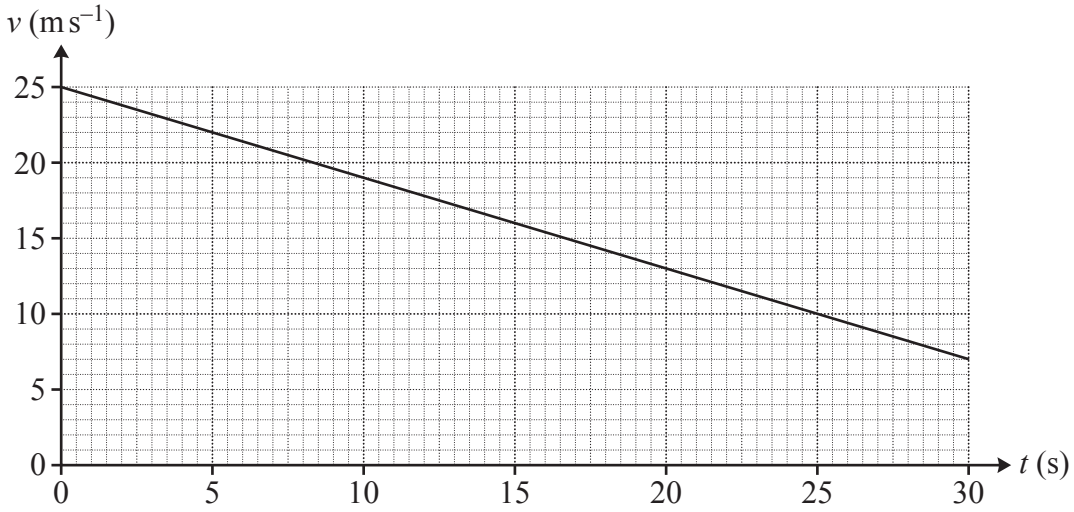
8(a)

8(b)

(answer space continued on next page)

8(b)	(continued)
9(a)	
9(b)	

9(c)



9(d)

9(e)

10(a)

10(b)(i)	
10(b)(ii)	
10(c)	
10(d)	

11(a)

$k =$

$n =$

11(b)

12(a)

12(b)

12(c)

EXTRA ANSWER SPACE

If you need extra space use these lined pages. You must write the question numbers clearly in the margin.