OCR
Oxford Cambridge and RSA

Thursday 19 May 2022 – Afternoon

AS Level Mathematics A

H230/01 Pure Mathematics and Statistics

Printed Answer Booklet

Time allowed: 1 hour 30 minutes

9084258313

You must have:
- Question Paper H230/01 (inside this document)
- a scientific or graphical calculator

H230/01

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.

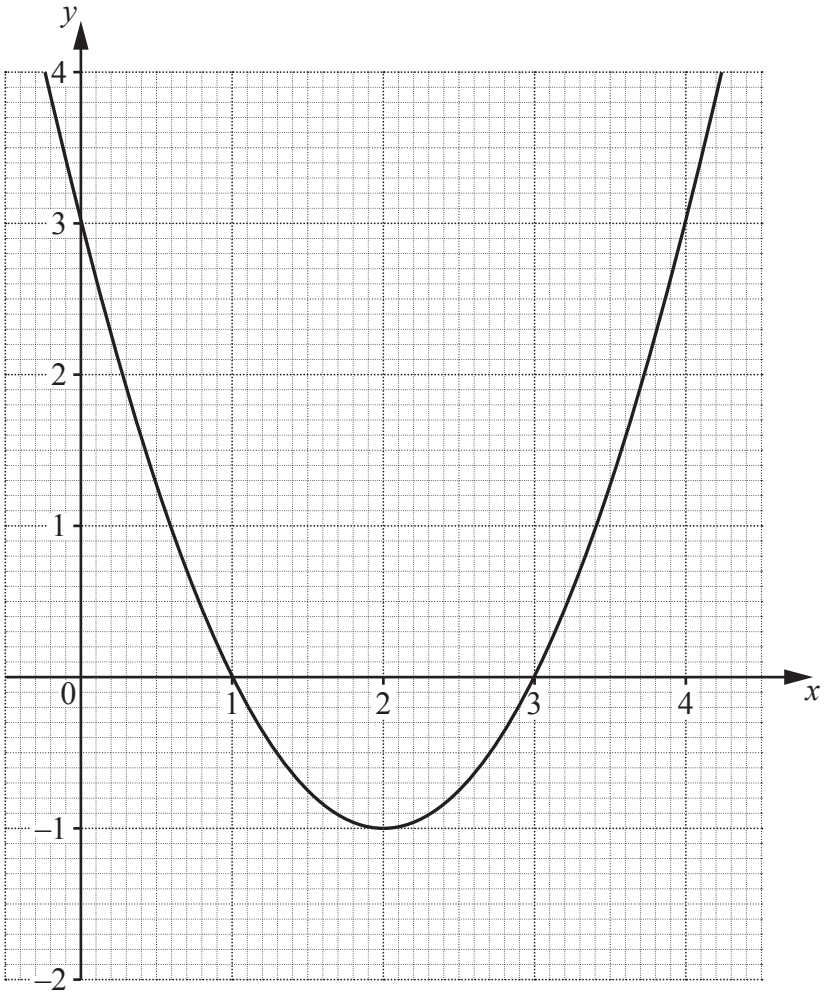
INFORMATION
- The total mark for this paper is **75**
- The marks for each question are shown in brackets **[ ]**.
- This document has **16** pages.

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

Section A: Pure Mathematics

1	
2(a)	
2(b)	

3(a)
3(b)
3(c)



3(a)

3(b) Value(s) of $x =$ .....

3(c) Please answer this question on the graph above.

4(a)

4(b)

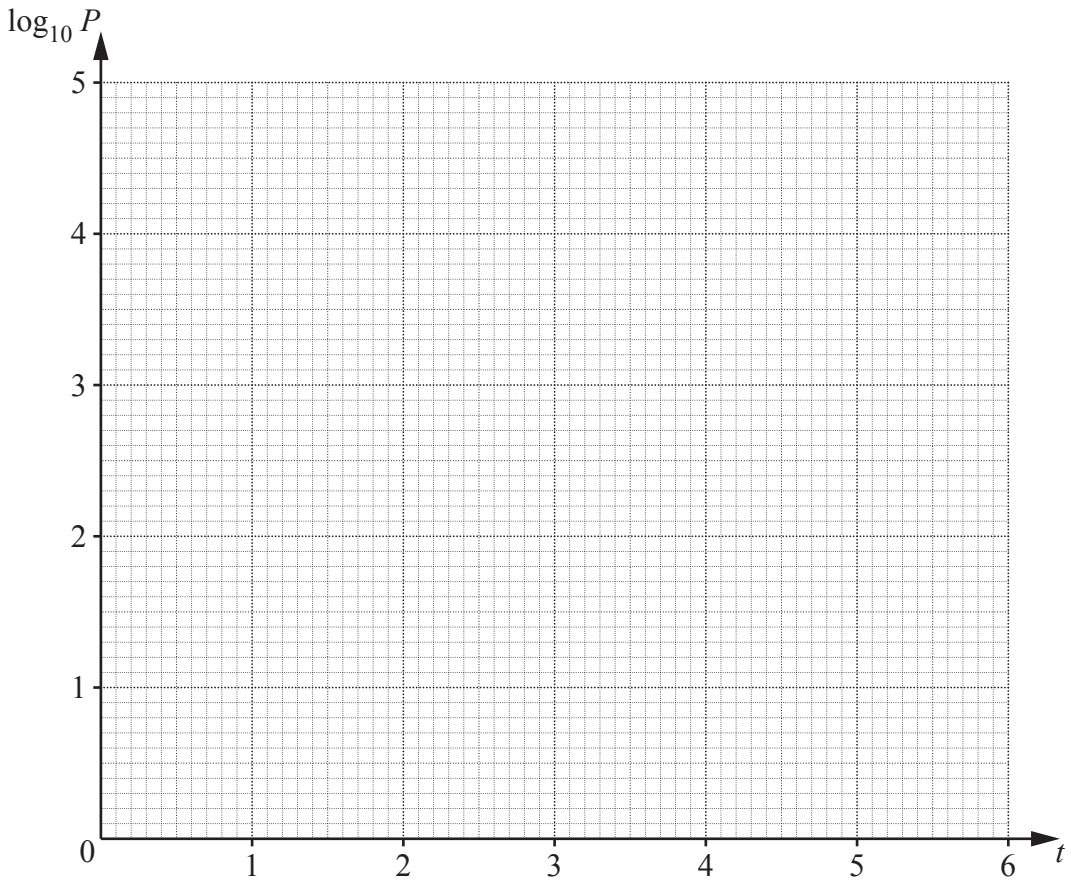
5(a)

5(b)

6(a)(i)	
6(a)(ii)	
6(b)(i)	

6(b)(ii)

t	1	2	3	4	5
P	100	500	1800	7000	19 000
$\log_{10} P$	2.00	2.70	3.26	3.85	4.28



6(b)(iii)

7(a)

7(b)	

Section B: Statistics

8(a)	
8(b)	
9(a)(i)	
9(a)(ii)	

9(b)

9(c)

10(a)	
10(b)	
10(c)	
10(d)	

11(a)(i)	
11(a)(ii)	

11(b)	

PLEASE DO NOT WRITE IN THIS SPACE

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).

PLEASE DO NOT WRITE ON THIS PAGE