



Oxford Cambridge and RSA

Friday 16 June 2023 – Afternoon

A Level Further Mathematics B (MEI)

Y422/01 Statistics Major

Printed Answer Booklet

Time allowed: 2 hours 15 minutes



You must have:

- Question Paper Y422/01 (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

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Candidate number

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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.

INFORMATION

- This document has **24** pages.

ADVICE

- Read each question carefully before you start your answer.

Section A (25 marks)

1(a)	
1(b)	
1(c)	
	$P(X = 10) =$
	$P(X > 10) =$
1(d)	

2(a)Estimate for $5^{\circ}\text{C} =$ Estimate for $-4^{\circ}\text{C} =$ **2(b)**

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

3(e)	

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Section B (95 marks)

4(a)	
4(b)	

4(c)**4(d)**

5(a)	
5(b)	

5(c)	
5(d)	
5(e)	

6(a)	

6(b)	

7(a)	
7(b)	
(answer space continued on next page)	

7(b)	(continued)

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8(a)	
8(b)	
8(c)	
	$P(T \leq 25) =$
	$P(T > 35) =$

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8(d)	

9(a)	
9(b)	

10(a)	
10(b)	

10(c)	
10(d)	

10(e)

10(f)

11(a)	
	$E(X) =$
	$Var(X) =$

11(b)	
	(answer space continued on next page)

11(b)	(continued)

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