



Oxford Cambridge and RSA

Thursday 7 October 2021 – 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 **20** pages.

ADVICE

- Read each question carefully before you start your answer.

2

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PLEASE DO NOT WRITE ON THIS PAGE

2(a)	
2(b)	
2(c)	
2(d)	
(answer space continued on next page)	

2(d) (continued)	
	$E(X) =$
	$Var(X) =$
2(e)	
2(f)	

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

Section B (91 marks)

4(a)	
4(b)	
	$P(X = 6) =$
	$P(X > 6) =$
4(c)	
5(a)	
5(b)	

6(a)	
6(b)	
	C3 =
D3 =	
E3 =	
6(c)	

8(a)(i)	
8(a)(ii)	
8(a)(iii)	
8(a)(iv)	

8(b)(i)	
8(b)(ii)	
8(b)(iii)	

11(b)	

11(c)	

