



Oxford Cambridge and RSA

**Friday 17 June 2022 – 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)

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Last name

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**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)

<b>1(a)</b>	
<b>1(b)</b>	
<b>1(c)</b>	
<b>1(d)</b>	

**2(a)**


**2(b)**


**2(c)**


**3(a)** $a =$  $b =$ **3(b)** $E(Y) =$  $\text{Var}(Y) =$





**5(c)****5(d)**

25°C =

10°C =

**5(e)**









7(c)	

**DO NOT WRITE IN THIS SPACE**



<b>8(c)</b>	<b>(continued)</b>

<b>8(d)</b>	





**10(a)**

Expected frequency		Dietary fat intake		
		Low	Medium	High
Cholesterol level	Normal			9.0667
	High			7.9333

**10(b)**

**10(c)**

(answer space continued on next page)

















