

OCR

Oxford Cambridge and RSA

Accredited

A Level Further Mathematics B (MEI)**Y422 Statistics Major**

Printed Answer Booklet

Date – Morning/Afternoon

Time allowed: 2 hours 15 minutes

OCR supplied materials:

- Printed Answer Booklet
- Formulae Further Mathematics B (MEI)

You must have:

- Printed Answer Booklet
- Formulae Further Mathematics B (MEI)
- Scientific or graphical calculator



First name

Last name

Centre
numberCandidate
number**INSTRUCTIONS**

- Use black ink. HB pencil may be used for graphs and diagrams only.
- Complete the boxes provided on the Printed Answer Booklet with your name, centre number and candidate number.
- Answer **all** the questions.
- **Write your answer to each question in the space provided in the Printed Answer Booklet.**
- Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Do **not** write in the bar codes.
- You are permitted to use a scientific or graphical calculator in this paper.
- Final answers should be given to a degree of accuracy appropriate to the context.

INFORMATION

- You are advised that an answer may receive **no marks** unless you show sufficient detail of the working to indicate that a correct method is used. You should communicate your method with correct reasoning.
- The Printed Answer Booklet consists of **20** pages. The Question Paper consists of **16** pages.

Section A (30 marks)

1 (i)											
1 (ii)	<table border="1"><tr><td>r</td><td>3</td><td>4</td><td>5</td><td>6</td></tr><tr><td>$P(X = r)$</td><td></td><td>$\frac{2}{9}$</td><td>$\frac{14}{81}$</td><td></td></tr></table>	r	3	4	5	6	$P(X = r)$		$\frac{2}{9}$	$\frac{14}{81}$	
	r	3	4	5	6						
$P(X = r)$		$\frac{2}{9}$	$\frac{14}{81}$								
1 (iii)											

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2 (i) (A)	
2 (i) (B)	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
2 (ii) (A)	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

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2 (ii) (B)	
2 (iii)	

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3 (i)	
3(ii) (A)	Estimate
	Comment
3(ii) (B)	Estimate
	Comment
3 (iii)	
3 (iv)	

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Section B (90 marks)

4 (i)	
4 (ii)	
4 (iii)	
4 (iv)	

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4 (v)	
5 (i)	
5 (ii)	

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6(i)	
6(ii)	
7(i)	

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7 (ii)

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8 (i)	
8(ii) (A)	
8(ii) (B)	
8 (iii)	

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8 (iv)	
9 (i) (A)	
9 (i) (B)	
9 (i) (C)	

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9 (ii)	

9 (iii)	

(answer space continued on next page)

9 (iii) (continued)	
9 (iv)	
10 (i)	

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10 (ii)	
10 (iii)	
10 (iv)	
10 (v)	

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11 (i)	
11 (ii)	
11 (iii)	

SPECIMEN

11 (iv) (A)	
11 (iv) (B)	
11 (iv) (C)	
11 (iv) (D)	

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11 (v)	
11 (vi) (A)	
11 (vi) (B)	
11 (vii) (A)	
11 (vii) (B)	

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11 (viii) <i>(A)</i>	
11 (viii) <i>(B)</i>	

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