

A Level Further Mathematics B (MEI)

Y422 Statistics Major

Printed Answer Booklet

Version 2

Date – Morning/Afternoon

Time allowed: 2 hours 15 minutes

You must have:

- Question Paper Y422 (inserted)
- Formulae Further Mathematics B (MEI)

You may use:

- a scientific or graphical calculator



First name

Last name

Centre
number

Candidate
number

INSTRUCTIONS

- The Question Paper will be found in the Printed Answer Booklet.
- 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)

r	3	4	5	6
$P(X = r)$		$\frac{2}{9}$	$\frac{14}{81}$	

1 (iii)

2 (i)
(A)

2 (i)
(B)

2 (ii) *(A)*

2 (ii) (B)**2 (iii)**

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

Section B (90 marks)

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

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

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

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

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

9 (ii)

9 (ii)

(answer space continued on next page)

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

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

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

11 (iv) <i>(A)</i>	
11 (iv) <i>(B)</i>	
11 (iv) <i>(C)</i>	
11 (iv) <i>(D)</i>	

11 (v)	
11 (vi) <i>(A)</i>	
11 (vi) <i>(B)</i>	
11 (vii) <i>(A)</i>	
11 (vii) <i>(B)</i>	

11 (viii)
(A)

11 (viii)
(B)

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