

Thursday 31 May 2012 – Morning

AS GCE MEI STATISTICS

G242 Statistics 2 (Z2)

PRINTED ANSWER BOOK

Candidates answer on this Printed Answer Book.

OCR supplied materials:

- Question Paper G242 (inserted)
- MEI Examination Formulae and Tables (MF2)

Other materials required:

- Scientific or graphical calculator

Duration: 1 hour 30 minutes



Candidate forename		Candidate surname	
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Centre number						Candidate number				
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INSTRUCTIONS TO CANDIDATES

These instructions are the same on the Printed Answer Book and the Question Paper.

- The Question Paper will be found in the centre of the Printed Answer Book.
- Write your name, centre number and candidate number in the spaces provided on the Printed Answer Book. Please write clearly and in capital letters.
- **Write your answer to each question in the space provided in the Printed Answer Book.** Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Answer **all** the questions.
- 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 FOR CANDIDATES

This information is the same on the Printed Answer Book and the Question Paper.

- The number of marks is given in brackets [] at the end of each question or part question on the Question Paper.
- 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 being used.
- The total number of marks for this paper is **72**.
- The Printed Answer Book consists of **12** pages. The Question Paper consists of **4** pages. Any blank pages are indicated.

1 (i)	
1 (ii)	
1 (iii)	
1 (iv)	

1 (v)	

2 (i)	
2 (ii)	
2 (iii)	

2 (iv)	
2 (v)	
2 (vi)	

3 (i)	(continued)
3 (ii)	
3 (iii)	

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

4 (iii)	(continued)
4 (iv)	
4 (v)	

5 (i)

Expected frequencies		Pesticide use		
		High	Medium	Low
Change in bee population	Minimal change	9.425	14.625	14.95
	Decrease of 10% to 20%	10.15		
	Over 20% decrease	9.425		

Contributions to the test statistic		Pesticide use		
		High	Medium	Low
Change in bee population	Minimal change	4.380	0.129	1.706
	Decrease of 10% to 20%	0.071		
	Over 20% decrease	3.298		

5 (i)	(continued)
5 (ii)	
5 (iii)	

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