



**Friday 6 June 2014 – Afternoon**

**AS GCE MATHEMATICS**

**4732/01** Probability & Statistics 1

**PRINTED ANSWER BOOK**

Candidates answer on this Printed Answer Book.

**OCR supplied materials:**

- Question Paper 4732/01 (inserted)
- List of Formulae (MF1)

**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 inside 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.
- Answer **all** the questions.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Do **not** write in the bar codes.
- You are permitted to use a scientific or graphical calculator in this paper.
- Give non-exact numerical answers correct to 3 significant figures unless a different degree of accuracy is specified in the question or is clearly appropriate.

**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 reminded of the need for clear presentation in your answers.**
- The total number of marks for this paper is **72**.
- The Printed Answer Book consists of **12** pages. The Question Paper consists of **8** pages. Any blank pages are indicated.

<b>1 (i)</b>	

<b>1 (ii)</b>	<table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Species B</td> <td style="border-left: 1px solid black; border-right: 1px solid black; padding: 5px;"></td> <td style="padding: 5px;">Species A</td> </tr> <tr> <td style="padding: 5px;"></td> <td style="border-left: 1px solid black; border-right: 1px solid black; padding: 5px; text-align: center;">5</td> <td style="padding: 5px;"></td> </tr> <tr> <td style="padding: 5px;"></td> <td style="border-left: 1px solid black; border-right: 1px solid black; padding: 5px; text-align: center;">5</td> <td style="padding: 5px; text-align: center;">9</td> </tr> <tr> <td style="padding: 5px;"></td> <td style="border-left: 1px solid black; border-right: 1px solid black; padding: 5px; text-align: center;">6</td> <td style="padding: 5px; text-align: center;">1 4</td> </tr> <tr> <td style="padding: 5px;"></td> <td style="border-left: 1px solid black; border-right: 1px solid black; padding: 5px; text-align: center;">6</td> <td style="padding: 5px; text-align: center;">5 5 9</td> </tr> <tr> <td style="padding: 5px;"></td> <td style="border-left: 1px solid black; border-right: 1px solid black; padding: 5px; text-align: center;">7</td> <td style="padding: 5px; text-align: center;">2 3 3 4</td> </tr> <tr> <td style="padding: 5px;"></td> <td style="border-left: 1px solid black; border-right: 1px solid black; padding: 5px; text-align: center;">7</td> <td style="padding: 5px; text-align: center;">5 6 6 6 7 8</td> </tr> <tr> <td style="padding: 5px;"></td> <td style="border-left: 1px solid black; border-right: 1px solid black; padding: 5px; text-align: center;">8</td> <td style="padding: 5px; text-align: center;">0 3 4</td> </tr> <tr> <td style="padding: 5px;"></td> <td style="border-left: 1px solid black; border-right: 1px solid black; padding: 5px; text-align: center;">8</td> <td style="padding: 5px; text-align: center;">5</td> </tr> </table> <p style="text-align: right; margin-top: 10px;">Key:</p>	Species B		Species A		5			5	9		6	1 4		6	5 5 9		7	2 3 3 4		7	5 6 6 6 7 8		8	0 3 4		8	5
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<b>1 (iii)</b>	

<b>2 (a)</b>	
<b>2 (b)(i)</b>	
<b>2 (b)(ii)</b>	

<b>3 (i)</b>	
<b>3 (ii)</b>	

<b>4 (i)(a)</b>	
<b>4 (i)(b)</b>	
<b>4 (i)(c)</b>	
<b>4 (ii)</b>	

<b>5 (i)</b>	
<b>5 (ii)</b>	
<b>5 (iii)</b>	



<b>6 (i)</b>	<table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">Team</td> <td style="padding: 5px;">A</td> <td style="padding: 5px;">B</td> <td style="padding: 5px;">C</td> <td style="padding: 5px;">D</td> <td style="padding: 5px;">E</td> <td style="padding: 5px;">F</td> </tr> <tr> <td style="padding: 5px;">Number of goals FOR (rank)</td> <td style="padding: 5px;">1</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">3</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">5</td> <td style="padding: 5px;">6</td> </tr> <tr> <td style="padding: 5px;">Number of goals AGAINST (rank)</td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> </table>	Team	A	B	C	D	E	F	Number of goals FOR (rank)	1	2	3	4	5	6	Number of goals AGAINST (rank)						
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Number of goals FOR (rank)	1	2	3	4	5	6																
Number of goals AGAINST (rank)																						
<b>6 (ii)</b>																						



<b>7 (i)</b>	
<b>7 (ii)</b>	
<b>7 (iii)(a)</b>	
<b>7 (iii)(b)</b>	

<b>8 (i)</b>	
<b>8 (ii)</b>	
<b>8 (iii)</b>	

<b>9 (i)</b>	
<b>9 (ii)</b>	
<b>9 (iii)</b>	
<b>9 (iv)</b>	

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