



ASSESSMENT and  
QUALIFICATIONS  
ALLIANCE

**GCSE**

**Science A (4461) /  
Biology (4411)**

*Specification A*

**BLY1AP, BL1ASF & BL1ASH**

**Mark Scheme**

*2010 Examination – November Series*

**The blank answer sheet for this component can be  
found at the end of this document.**

This component is an objective test for which the following list indicates the correct answers used in marking the candidates' responses.

Further copies of this Mark Scheme are available to download from the AQA Website: [www.aqa.org.uk](http://www.aqa.org.uk)

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**GCSE**  
**SCIENCE A (4461) / BIOLOGY (4411)**  
 Objective Test Answer Key  
**BLY1A (Human Biology)**  
**November 2010**  
 Foundation Tier

Question	Key			
One	<b>A</b>	arthritis		1
	<b>B</b>	diabetes		2
	<b>C</b>	high blood pressure		4
	<b>D</b>	irregular periods		3
Two	<b>A</b>	painkiller		4
	<b>B</b>	penicillin		1
	<b>C</b>	thalidomide		3
	<b>D</b>	vaccine		2
Three	<b>A</b>	alcohol		2
	<b>B</b>	cocaine		4
	<b>C</b>	caffeine		1
	<b>D</b>	cannabis		3
Four	<b>A</b>	5		2
	<b>B</b>	11		3
	<b>C</b>	15		1
	<b>D</b>	28		4
Five	<b>A</b>	a hypothesis		4
	<b>B</b>	a control		1
	<b>C</b>	an observation		3
	<b>D</b>	a conclusion		2
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Six	4	3	4	1
Seven	4	2	3	3
Eight	3	2	4	1
Nine	3	2	4	2

**GCSE**  
**SCIENCE A (4461) / BIOLOGY (4411)**

Objective Test Answer Key

**BLY1A (Human Biology)**

**November 2010**

Higher Tier

Question	Key			
One	<b>A</b>	a hypothesis	<b>4</b>	
	<b>B</b>	a control	<b>1</b>	
	<b>C</b>	an observation	<b>3</b>	
	<b>D</b>	a conclusion	<b>2</b>	
Two	<b>A</b>	carbon monoxide	<b>3</b>	
	<b>B</b>	carcinogen	<b>2</b>	
	<b>C</b>	nicotine	<b>1</b>	
	<b>D</b>	oxygen	<b>4</b>	
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Three	<b>3</b>	<b>2</b>	<b>4</b>	<b>1</b>
Four	<b>3</b>	<b>2</b>	<b>4</b>	<b>2</b>
Five	<b>3</b>	<b>2</b>	<b>3</b>	<b>4</b>
Six	<b>2</b>	<b>4</b>	<b>1</b>	<b>2</b>
Seven	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>
Eight	<b>3</b>	<b>4</b>	<b>3</b>	<b>1</b>
Nine	<b>3</b>	<b>3</b>	<b>3</b>	<b>1</b>

Unit : BLY1AP BIOLOGY UNIT 1A

Centre :

Candidate Number :

UCI :

Series : BG10

Candidate Name :

For completion by the Examination Invigilator. Please fill this circle if the candidate is absent: **HIGHER TIER**

Instructions on how to complete this answer sheet are given on the question paper. Please make sure you follow them carefully.

Questions ONE to NINE Choose one response 1 - 4 for each of the parts A - D

## QUESTION ONE

- |                   | 1                     | 2                     | 3                     | 4                     |
|-------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1A a hypothesis   | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 1B a control      | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 1C an observation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 1D a conclusion   | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

## QUESTION TWO

- |                    | 1                     | 2                     | 3                     | 4                     |
|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 2A carbon monoxide | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2B carcinogen      | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2C nicotine        | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2D oxygen          | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

## QUESTION THREE

- |    | 1                     | 2                     | 3                     | 4                     |
|----|-----------------------|-----------------------|-----------------------|-----------------------|
| 3A | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3B | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3C | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3D | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

## QUESTION FOUR

- |    | 1                     | 2                     | 3                     | 4                     |
|----|-----------------------|-----------------------|-----------------------|-----------------------|
| 4A | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4B | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4C | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 4D | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

## QUESTION FIVE

- |    | 1                     | 2                     | 3                     | 4                     |
|----|-----------------------|-----------------------|-----------------------|-----------------------|
| 5A | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5B | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5C | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5D | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

## QUESTION SIX

- |    | 1                     | 2                     | 3                     | 4                     |
|----|-----------------------|-----------------------|-----------------------|-----------------------|
| 6A | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6B | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6C | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 6D | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

## QUESTION SEVEN

- |    | 1                     | 2                     | 3                     | 4                     |
|----|-----------------------|-----------------------|-----------------------|-----------------------|
| 7A | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7B | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7C | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 7D | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

## QUESTION EIGHT

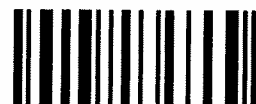
- |    | 1                     | 2                     | 3                     | 4                     |
|----|-----------------------|-----------------------|-----------------------|-----------------------|
| 8A | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8B | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8C | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8D | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

## QUESTION NINE

- |    | 1                     | 2                     | 3                     | 4                     |
|----|-----------------------|-----------------------|-----------------------|-----------------------|
| 9A | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9B | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9C | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 9D | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

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# FOUNDATION TIER

Instructions on how to complete this answer sheet are given on the question paper. Please make sure you follow them carefully.

Questions ONE to NINE Choose one response 1 - 4 for each of the parts A - D

QUESTION ONE		1	2	3	4
1A	arthritis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B	diabetes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1C	high blood pressure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1D	irregular periods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO		1	2	3	4
2A	painkiller	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B	penicillin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C	thalidomide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D	vaccine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION THREE		1	2	3	4
3A	alcohol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3B	cocaine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3C	caffeine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3D	cannabis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION FOUR		1	2	3	4
4A	5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4B	11	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4C	15	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4D	28	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION FIVE		1	2	3	4
5A	a hypothesis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5B	a control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5C	an observation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5D	a conclusion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION SIX		1	2	3	4
6A		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6B		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6C		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6D		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION SEVEN		1	2	3	4
7A		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7B		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7C		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7D		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION EIGHT		1	2	3	4
8A		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8B		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8C		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8D		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION NINE		1	2	3	4
9A		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9B		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9C		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9D		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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