



**GCSE**

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

*Specification A*

**BLY1AP, BL1ASF & BL1ASH**

**Mark Scheme**

*2011 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 students' 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  
**BLY1AP (Human Biology)**  
**November 2011**  
 Foundation Tier

Question	Key			
One	<b>A</b>	leprosy		<b>4</b>
	<b>B</b>	limb abnormalities		<b>3</b>
	<b>C</b>	morning sickness		<b>2</b>
	<b>D</b>	difficulties in sleeping		<b>1</b>
Two	<b>A</b>	antibodies		<b>3</b>
	<b>B</b>	antibiotics		<b>2</b>
	<b>C</b>	toxins		<b>1</b>
	<b>D</b>	painkillers		<b>4</b>
Three	<b>A</b>	High sport		<b>4</b>
	<b>B</b>	Hydrate		<b>2</b>
	<b>C</b>	Quench		<b>3</b>
	<b>D</b>	Unsweetened orange juice		<b>1</b>
Four	<b>A</b>	1991		<b>1</b>
	<b>B</b>	1994		<b>3</b>
	<b>C</b>	1997		<b>2</b>
	<b>D</b>	2000		<b>4</b>
Five	<b>A</b>	Drugs are tested on animals to see if the drugs work		<b>2</b>
	<b>B</b>	... tested on volunteers to detect any side effects		<b>3</b>
	<b>C</b>	... are tested on cells to see if the drugs are safe to test on organisms		<b>1</b>
	<b>D</b>	Drugs are tested on patients to find the best dose		<b>4</b>
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Six	<b>4</b>	<b>2</b>	<b>2</b>	<b>3</b>
Seven	<b>3</b>	<b>2</b>	<b>2</b>	<b>4</b>
Eight	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>
Nine	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>

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

Objective Test Answer Key

**BLY1AP (Human Biology)**

**November 2011**

Higher Tier

Question	Key			
One	<b>A</b>	Drugs are tested on animals to see if the drugs work		<b>2</b>
	<b>B</b>	... tested on volunteers to detect any side effects		<b>3</b>
	<b>C</b>	... are tested on cells to see if the drugs are safe to test on organisms		<b>1</b>
	<b>D</b>	Drugs are tested on patients to find the best dose		<b>4</b>
Two	<b>A</b>	higher muscle to fat ratio		<b>2</b>
	<b>B</b>	obesity		<b>4</b>
	<b>C</b>	reduced cholesterol levels, decreases in weight		<b>1</b>
	<b>D</b>	very low metabolic rate, muscle loss		<b>3</b>
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Three	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>
Four	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>
Five	<b>2</b>	<b>3</b>	<b>3</b>	<b>4</b>
Six	<b>3</b>	<b>4</b>	<b>3</b>	<b>3</b>
Seven	<b>1</b>	<b>3</b>	<b>2</b>	<b>3</b>
Eight	<b>2</b>	<b>3</b>	<b>3</b>	<b>1</b>
Nine	<b>4</b>	<b>3</b>	<b>1</b>	<b>4</b>

The AQA UMS Conversion Calculator can be found at the following web address:

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Unit : BLY1AP      **BIOLOGY UNIT 1A**

Centre :

Candidate Number :

UCI :

Series : BG11

Candidate Name :

15-NOV-11

*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	Drugs are tested on animals to see if the drugs work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B	Low dose drug tested on volunteers to detect side effects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1C	Drugs tested on cells to see if safe to test on organisms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1D	Drugs are tested on patients to find the best dose	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO		1	2	3	4
2A	higher muscle to fat ratio	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B	obesity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C	reduced cholesterol levels, decrease in weight	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D	very low metabolic rate, muscle loss	<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	leprosy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B	limb abnormalities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1C	morning sickness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1D	difficulties in sleeping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO		1	2	3	4
2A	antibodies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B	antibiotics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C	toxins	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D	painkillers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION THREE		1	2	3	4
3A	High sport	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3B	Hydrate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3C	Quench	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3D	Unsweetened orange juice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION FOUR		1	2	3	4
4A	1991	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4B	1994	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4C	1997	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4D	2000	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION FIVE		1	2	3	4
5A	Drugs are tested on animals to see if the drugs work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5B	Low dose drug tested on volunteers to detect side effects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5C	Drugs tested on cells to see if safe to test on organisms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5D	Drugs are tested on patients to find the best dose	<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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