



**GCSE**

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

*Specification A*

**BLY1BP, BL1BSF & BL1BSH**

**Mark Scheme**

*2011 Examination – June 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  
**BLY1BP (Evolution and Environment)**  
**June 11**  
 Foundation Tier

Question	Key			
One	<b>A</b>	Thick fur		3
	<b>B</b>	Shaggy tail end		1
	<b>C</b>	Sharp pointed horns		2
	<b>D</b>	Thick muscular neck to move head sideways		4
Two	<b>A</b>	burning fuels that release carbon dioxide		3
	<b>B</b>	building new houses		4
	<b>C</b>	spraying crops with pesticides		2
	<b>D</b>	using weedkillers on crops		1
Three	<b>A</b>	Alamosaurus		4
	<b>B</b>	Lagosuchus		1
	<b>C</b>	Saturnalia		3
	<b>D</b>	Triceratops		2
Four	<b>A</b>	invertebrates		2
	<b>B</b>	lichens		1
	<b>C</b>	rice crops		4
	<b>D</b>	trees		3
Five	<b>A</b>	extinction		4
	<b>B</b>	mutation		2
	<b>C</b>	reproduction		3
	<b>D</b>	variation		1
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Six	<b>1</b>	<b>2</b>	<b>3</b>	<b>2</b>
Seven	<b>3</b>	<b>1</b>	<b>4</b>	<b>3</b>
Eight	<b>3</b>	<b>1</b>	<b>3</b>	<b>4</b>
Nine	<b>2</b>	<b>4</b>	<b>3</b>	<b>4</b>

**GCSE**  
**SCIENCE A (4461)/BIOLOGY (4411)**  
 Objective Test Answer Key  
**BLY1BP (Evolution and Environment)**  
**June 11**  
 Higher Tier

Question	Key			
One	<b>A</b>	extinction		4
	<b>B</b>	mutation		2
	<b>C</b>	reproduction		3
	<b>D</b>	variation		1
Two	<b>A</b>	each of the four species changes slowly over time		1
	<b>B</b>	none of the four species changes over time and some species die out		4
	<b>C</b>	none of the four species changes over time		3
	<b>D</b>	new species evolve over time		2
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Three	<b>3</b>	<b>1</b>	<b>3</b>	<b>4</b>
Four	<b>2</b>	<b>4</b>	<b>3</b>	<b>4</b>
Five	<b>3</b>	<b>4</b>	<b>4</b>	<b>3</b>
Six	<b>3</b>	<b>4</b>	<b>4</b>	<b>4</b>
Seven	<b>4</b>	<b>2</b>	<b>4</b>	<b>1</b>
Eight	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>
Nine	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>

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

<http://www.aqa.org.uk/umsconversion>

**Unit : BLY1BP      BIOLOGY UNIT 1B**

**Centre :**

**Candidate Number :**

**UCI :**

Series : 6M11

**Candidate Name :**

28-JUN-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	extinction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B	mutation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1C	reproduction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1D	variation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO		1	2	3	4
2A	each of the four species changes slowly over time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B	none of the four species changes over time & some die out	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C	none of the four species changes over time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D	new species evolve over time	<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	Thick fur	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B	Shaggy tail end	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1C	Sharp pointed horns	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1D	Thick muscular neck to move head sideways	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO		1	2	3	4
2A	burning fuels that release carbon dioxide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B	building new houses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C	spraying crops with pesticides	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D	using weedkillers on crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION THREE		1	2	3	4
3A	Alamosaurus	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3B	Lagosuchus	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3C	Saturnalia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3D	Triceratops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION FOUR		1	2	3	4
4A	invertebrates	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4B	lichens	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4C	rice crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4D	trees	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION FIVE		1	2	3	4
5A	extinction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5B	mutation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5C	reproduction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5D	variation	<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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