



**GCSE**

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

*Specification A*

**BLY1BP, BL1BSF & BL1BSH**

**Mark Scheme**

*2011 Examination – March 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)**  
**March 2011**  
 Foundation Tier

Question	Key			
One	<b>A</b>	long beak		<b>3</b>
	<b>B</b>	wide-spread toes		<b>1</b>
	<b>C</b>	short wings		<b>4</b>
	<b>D</b>	brown feathers		<b>2</b>
Two	<b>A</b>	carbon dioxide		<b>2</b>
	<b>B</b>	herbicide		<b>3</b>
	<b>C</b>	sulfur dioxide		<b>1</b>
	<b>D</b>	pesticide		<b>4</b>
Three	<b>A</b>	160		<b>4</b>
	<b>B</b>	1200		<b>3</b>
	<b>C</b>	1400		<b>2</b>
	<b>D</b>	2600		<b>1</b>
Four	<b>A</b>	the organism is now a better competitor		<b>2</b>
	<b>B</b>	the mutated gene is passed on to offspring		<b>3</b>
	<b>C</b>	a gene mutates		<b>1</b>
	<b>D</b>	a new species is produced		<b>4</b>
Five	<b>A</b>	embryo transplants		<b>2</b>
	<b>B</b>	sexual reproduction		<b>4</b>
	<b>C</b>	taking cuttings		<b>1</b>
	<b>D</b>	tissue culture		<b>3</b>
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Six	<b>2</b>	<b>4</b>	<b>1</b>	<b>2</b>
Seven	<b>4</b>	<b>1</b>	<b>1</b>	<b>4</b>
Eight	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>
Nine	<b>3</b>	<b>4</b>	<b>3</b>	<b>2</b>

**GCSE**  
**SCIENCE A (4461) / BIOLOGY (4411)**  
 Objective Test Answer Key  
**BLY1BP (Evolution and Environment)**  
**March 2011**  
 Higher Tier

Question	Key			
One	<b>A</b>	embryo transplants		<b>2</b>
	<b>B</b>	sexual reproduction		<b>4</b>
	<b>C</b>	taking cuttings		<b>1</b>
	<b>D</b>	tissue culture		<b>3</b>
Two	<b>A</b>	catches fish and carries them inside its lower beak		<b>4</b>
	<b>B</b>	sucks nectar from deep inside a flower		<b>1</b>
	<b>C</b>	shovels up the mud at the bottom of water to find food		<b>2</b>
	<b>D</b>	rips animal prey to pieces		<b>3</b>
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Three	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>
Four	<b>3</b>	<b>4</b>	<b>3</b>	<b>2</b>
Five	<b>4</b>	<b>3</b>	<b>3</b>	<b>3</b>
Six	<b>3</b>	<b>1</b>	<b>3</b>	<b>2</b>
Seven	<b>3</b>	<b>4</b>	<b>2</b>	<b>2</b>
Eight	<b>4</b>	<b>2</b>	<b>1</b>	<b>2</b>
Nine	<b>1</b>	<b>1</b>	<b>3</b>	<b>3</b>

Unit : BLY1BP BIOLOGY UNIT 1B

Centre :

Candidate Number :

UCI :

Series : 3G11

Candidate Name :

02-MAR-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	embryo transplants	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B	sexual reproduction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1C	taking cuttings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1D	tissue culture	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO		1	2	3	4
2A	catches fish and carries them inside its lower beak	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B	sucks nectar from deep inside a flower	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C	shovels up the mud at the bottom of water to find food	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D	rips animal prey to pieces	<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	long beak	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B	wide-spread toes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1C	short wings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1D	brown feathers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO		1	2	3	4
2A	carbon dioxide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B	herbicide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C	sulfur dioxide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D	pesticide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION THREE		1	2	3	4
3A	160	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3B	1200	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3C	1400	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3D	2600	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION FOUR		1	2	3	4
4A	the organism is now a better competitor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4B	the mutated gene is passed on to offspring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4C	a gene mutates	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4D	a new species is produced	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION FIVE		1	2	3	4
5A	embryo transplants	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5B	sexual reproduction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5C	taking cuttings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5D	tissue culture	<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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