

### **GCSE**

# Science A (4461) / Biology (4411)

Specification A

**BLY1BP, BL1BSF & BL1BSH** 

### **Mark Scheme**

2012 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 aqa.org.uk
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### GCSE SCIENCE A (4461)/BIOLOGY (4411)

Objective Test Answer Key

## BLY1BP (Evolution and Environment) November 2012

Foundation Tier

Question		· ·	<b>Key</b>		
One	C may poll	acid rain ess carbon dioxide t ute farmland with po s methane		e atmosphere	2 1 3 4
Two	<ul><li>A evolution</li><li>B mutation</li><li>C selection</li><li>D variation</li></ul>	1			4 2 3 1
	A (*.1				
Three	<ul><li>A fish</li><li>B amphibia</li><li>C reptiles</li><li>D mamma</li></ul>				3 1 2 4
Four	B Heat end C Heat end	eat energy escapes in ergy is re-radiated by ergy is radiated into diation warms the Ea	y greenhouse gases the atmosphere.	S.	3 4 2 1
Five	<ul><li>A genes</li><li>B gametes</li><li>C embryos</li><li>D characte</li></ul>	;			2 3 4 1
	_	_		_	
	Α	В	С	D	
Six	3	4	1	4	
Seven	4	1	1	4	
Eight	3	4	1	4	
Nine	2	2	2	1	

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

Objective Test Answer Key

### BLY1BP (Evolution and Environment) November 2012

**Higher Tier** 

Question			Key	
	<b>A</b> genes		2	
One	<b>B</b> gametes	5	3	
One	<b>C</b> embryos	3	4	
	<b>D</b> characte	eristics	1	
	A mutation	า	3	
Two	<b>B</b> natural s	selection	1	
TWO	<b>C</b> extinction	n	4	
	D variation	1	2	
	Α	В	С	D
Three	3	4	1	4
Four	2	2	2	1
Five	1	3	3	2
Six	4	2	4	1
Seven	3	1	3	1
Eight	3	1	4	1
Nine	2	1	4	3

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:** 

**Candidate Name:** 

UCI:

Series: BG12

06-NOV-12

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	1
1A	genes		•	0	0	0	
1B	gametes		0	0	0	0	
1C	embryos		0	0	0	0	
1D	characteristics		0	0	0	0	
		QUESTION TWO	1	2	3	4	1
2A	mutation		0	0	0	0	
2B	natural selection		0	0	0	0	
2C	extinction		0	0	0	0	
2D	variation		0	0	0	0	

	QUEST	ION 2	THRI	EE 4
3A	0	0	0	0
3B	0	0	0	0
3C	0	0	0	0
3D	0	0	0	0

	QUES	TION 2	SIX 3	4
6A	0	0	0	0
6B	0	0	0	0
6C	0	0	0	0
6D	0	0	0	0

	QUEST	ON F	OUF	1
	1	2	3	4
4A	0	0	0	0
4B	0	0	0	0
4C	0	0	0	0
4D	0	0	0	0

Ql	JESTI	ON S	QUESTION SEVEN						
	1	2	3	4					
7A	0	0	0	0					
7B	0	0	0	0					
7C	0	0	0	0					
7D	0	0	0	0					

	QUEST	ION	NINE	
	1	2	3	4
9A	0	0	0	0
9B	0	0	0	0
9C	0	0	0	0
9D	0	0	0	0

	QUEST 1	ION 2	FIVE 3	4
5A	0	0	0	0
5B	0	0	0	0
5C	0	0	0	0
5D	0	0	0	0

	QUEST	ION	EIGHT	
	1	2	3	4
<b>8A</b>	0	0	0	0
8B	0	0	0	0
8C	0	0	0	0
8D	0	0	0	0

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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
A	causes acid rain	0	0	0	0
IB	causes less carbon dioxide to be taken out of atmosphere	0	0	0	0
1C	may pollute farmland with poisonous chemicals	0	0	0	0
1D	produces methane	0	0	0	0
-	QUESTION TWO	1	2	3	4
2A	evolution	0	0	0	0
2B	mutation	0	0	0	0
2C	selection	0	0	0	0
2D	variation	0	0	0	0
	QUESTION THREE	1	2	3	4
3A	fish	0	0	0	0
3B	amphibians	0	0	0	0
3C	reptiles	0	0	0	0
3D	mammals	0	0	0	0
	QUESTION FOUR	1	2	3	4
4A	Some heat energy escapes into space.	0	0	0	0
4B	Heat energy is re-radiated by greenhouse gases.	0	0	0	0
4C	Heat energy is radiated into the atmosphere.	0	0	0	0
4D	Solar radiation warms the Earth's surface.	0	0	0	0
	QUESTION FIVE	1	2	3	4
5A	genes	0	0	0	0
5B	gametes	0	0	0	0
5C	embryos	0	0	0	0
5D	characteristics	0	0	0	0

	QUES	ΓΙΟΝ 2	SIX 3	4
6A	0	0	0	0
6B	0	0	0	0
6C	0	0	0	0
6D	0	0	0	0

QUESTION SEVEN					
7A	1	2	3	4	
7B	0	0	0	0	
7C	0	0	0	0	
7D	0	0	0	0	

	QUESTION EIGHT				
8A	0	0	0	0	
8B	0	0	0	0	
8C	0	0	0	0	
8D	0	0	0	0	

	QUEST	ION 2	NINE 3	4
9A	0	0	0	0
9B	0	0	0	0
9C	0	0	0	0
9D	0	0	0	0

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