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.

Set and published by AQA.

AQA Education (AQA) is a registered charity (number 1073334) and a company limited by guarantee registered in England and Wales (number 3644723). Our registered address is AQA, Devas Street, Manchester M15 6EX.

GCSE

SCIENCE A (4461)/BIOLOGY (4411)

Objective Test Answer Key

BLY1BP (Evolution and Environment)

November 2012

Foundation Tier

Question	Key		
One	**A**	causes acid rain	**2**
	B	causes less carbon dioxide to be taken out of the atmosphere	**1**
	C	may pollute farmland with poisonous chemicals	**3**
	D	produces methane	**4**
Two	**A**	evolution	**4**
	B	mutation	**2**
	C	selection	**3**
	D	variation	**1**
Three	**A**	fish	**3**
	B	amphibians	**1**
	C	reptiles	**2**
	D	mammals	**4**
Four	**A**	Some heat energy escapes into space.	**3**
	B	Heat energy is re-radiated by greenhouse gases.	**4**
	C	Heat energy is radiated into the atmosphere.	**2**
	D	Solar radiation warms the Earth's surface.	**1**
Five	**A**	genes	**2**
	B	gametes	**3**
	C	embryos	**4**
	D	characteristics	**1**

	A	**B**	**C**	**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		
One	**A**	genes	**2**
	B	gametes	**3**
	C	embryos	**4**
	D	characteristics	**1**
Two	**A**	mutation	**3**
	B	natural selection	**1**
	C	extinction	**4**
	D	variation	**2**

	A	B	C	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

OTQ3

AQA

Unit : BLY1BP BIOLOGY UNIT 1B

Centre :

Candidate Number : **UCI :**

Candidate Name :

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
1A	genes	○	○	○	○
1B	gametes	○	○	○	○
1C	embryos	○	○	○	○
1D	characteristics	○	○	○	○

QUESTION TWO		1	2	3	4
2A	mutation	○	○	○	○
2B	natural selection	○	○	○	○
2C	extinction	○	○	○	○
2D	variation	○	○	○	○

QUESTION THREE	1	2	3	4
3A	○	○	○	○
3B	○	○	○	○
3C	○	○	○	○
3D	○	○	○	○

QUESTION FOUR	1	2	3	4
4A	○	○	○	○
4B	○	○	○	○
4C	○	○	○	○
4D	○	○	○	○

QUESTION FIVE	1	2	3	4
5A	○	○	○	○
5B	○	○	○	○
5C	○	○	○	○
5D	○	○	○	○

QUESTION SIX	1	2	3	4
6A	○	○	○	○
6B	○	○	○	○
6C	○	○	○	○
6D	○	○	○	○

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

QUESTION EIGHT	1	2	3	4
8A	○	○	○	○
8B	○	○	○	○
8C	○	○	○	○
8D	○	○	○	○

QUESTION NINE	1	2	3	4
9A	○	○	○	○
9B	○	○	○	○
9C	○	○	○	○
9D	○	○	○	○

For AQA Office Use Only

2207

2207

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 causes acid rain	○	○	○	○
1B causes less carbon dioxide to be taken out of atmosphere	○	○	○	○
1C may pollute farmland with poisonous chemicals	○	○	○	○
1D produces methane	○	○	○	○

QUESTION TWO	1	2	3	4
2A evolution	○	○	○	○
2B mutation	○	○	○	○
2C selection	○	○	○	○
2D variation	○	○	○	○

QUESTION THREE	1	2	3	4
3A fish	○	○	○	○
3B amphibians	○	○	○	○
3C reptiles	○	○	○	○
3D mammals	○	○	○	○

QUESTION FOUR	1	2	3	4
4A Some heat energy escapes into space.	○	○	○	○
4B Heat energy is re-radiated by greenhouse gases.	○	○	○	○
4C Heat energy is radiated into the atmosphere.	○	○	○	○
4D Solar radiation warms the Earth's surface.	○	○	○	○

QUESTION FIVE	1	2	3	4
5A genes	○	○	○	○
5B gametes	○	○	○	○
5C embryos	○	○	○	○
5D characteristics	○	○	○	○

QUESTION SIX	1	2	3	4
6A	○	○	○	○
6B	○	○	○	○
6C	○	○	○	○
6D	○	○	○	○

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

QUESTION EIGHT	1	2	3	4
8A	○	○	○	○
8B	○	○	○	○
8C	○	○	○	○
8D	○	○	○	○

QUESTION NINE	1	2	3	4
9A	○	○	○	○
9B	○	○	○	○
9C	○	○	○	○
9D	○	○	○	○

For AQA Office Use Only

2207

2207

