



GCSE

Science A (4461)

Specification A

BLY1BP, BL1BSF & BL1BSH

Mark Scheme

2009 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

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GCSE
SCIENCE A (4461)/BIOLOGY (4411)
 Objective Test Answer Key
BLY1BP (Evolution and Environment)
June 2009
 Foundation Tier

Question	Key			
One	A wide, to stop the bird sinking into the sand			4
	B long, to reach animals buried deep in the sand			1
	C long, to help the bird to see predators approaching			3
	D thick, to provide an insulating layer			2
Two	A increasing the amount of glass and metal recycled			2
	B increasing the amount of paper recycled			1
	C improving insulation in homes			4
	D extending the railway network			3
Three	A evolution			4
	B mutation			2
	C selection			3
	D variation			1
Four	A when trilobites first appeared on the Earth			4
	B when trilobites had finally become extinct			1
	C when there were most groups of trilobites			3
	D the beginning of the largest scale extinction of trilobite groups			2
Five	A adult cell cloning			2
	B embryo transplants			1
	C taking cuttings			4
	D tissue culture			3
	A	B	C	D
Six	1	2	4	4
Seven	2	2	3	1
Eight	2	3	1	3
Nine	2	2	1	3

GCSE
SCIENCE A (4461)/BIOLOGY (4411)
 Objective Test Answer Key
BLY1BP (Evolution and Environment)
June 2009
 Higher Tier

Question	Key			
One	A adult cell cloning			2
	B embryo transplants			1
	C taking cuttings			4
	D tissue culture			3
Two	A Creationism			4
	B Intelligent Design			3
	C Lamarckism			1
	D Darwinism			2
	A	B	C	D
Three	2	3	1	3
Four	2	2	1	3
Five	4	3	4	3
Six	2	2	3	4
Seven	4	1	3	3
Eight	3	1	3	1
Nine	3	2	1	*

* This question has been removed

Unit : BLY1BP BIOLOGY UNIT 1B

Centre :

Candidate Number :

UCI :

Series : 6M09

Candidate Name :

22-JUN-09

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	adult cell cloning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B	embryo transplants	<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	Creationism	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B	Intelligent Design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C	Lamarckism	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D	Darwinism	<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"/>

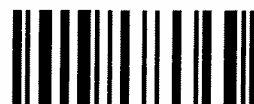
QUESTION SEVEN		1	2	3	4
7A		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7B		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7C		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7D		<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 wide, to stop the bird from sinking into the sand | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | . |
| 1B long, to reach animals buried deep in the sand | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | . |
| 1C long, to help the bird to see predators approaching | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | . |
| 1D thick, to provide an insulating layer | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | . |

QUESTION TWO

- | | 1 | 2 | 3 | 4 | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|---|
| 2A increasing the amount of glass and metal recycled | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | . |
| 2B increasing the amount of paper recycled | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | . |
| 2C improving insulation in homes | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | . |
| 2D extending the railway network | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | . |

QUESTION THREE

- | | 1 | 2 | 3 | 4 | |
|--------------|-----------------------|-----------------------|-----------------------|-----------------------|---|
| 3A evolution | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | . |
| 3B mutation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | . |
| 3C selection | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | . |
| 3D variation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | . |

QUESTION FOUR

- | | 1 | 2 | 3 | 4 | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|---|
| 4A when trilobites first appeared on the Earth | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | . |
| 4B when trilobites had finally become extinct | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | . |
| 4C when there were most groups of trilobites | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | . |
| 4D the beginning of the largest scale extinction... | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | . |

QUESTION FIVE

- | | 1 | 2 | 3 | 4 | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|
| 5A adult cell cloning | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | . |
| 5B embryo transplants | <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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