



GCSE

Science A (4461)

Specification A

BLY1AP, BL1ASF & BL1ASH

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

Copyright © 2009 AQA and its licensors. All rights reserved.

COPYRIGHT

AQA retains the copyright on all its publications. However, registered centres for AQA are permitted to copy material from this booklet for their own internal use, with the following important exception: AQA cannot give permission to centres to photocopy any material that is acknowledged to a third party even for internal use within the centre.

Set and published by the Assessment and Qualifications Alliance.

GCSE
SCIENCE A (4461)/BIOLOGY (4411)
Objective Test Answer Key
BLY1AP (Human Biology)
June 2009
Foundation Tier

Question	Key			
One	A kills bacteria	2		
	B linked to lung disease	1		
	C an addictive, illegal drug	3		
	D relieves some disease symptoms	4		
Two	A has receptors that are sensitive to the smell of the pasta sauce	2		
	B has receptors that would detect heat if the girl touched the pan	3		
	C has receptors that are sensitive to the taste of the pasta sauce	4		
	D has receptors that enable the girl to read the recipe for the pasta sauce	1		
Three	A glands	4		
	B kidneys	3		
	C lungs	1		
	D skin	2		
Four	A 200	3		
	B 2000	2		
	C 4000	1		
	D 5200	4		
Five	A motor neurone	3		
	B muscle	4		
	C sensory neurone	1		
	D synapse	2		
	A	B	C	D
Six	4	3	1	1
Seven	3	2	1	1
Eight	4	3	3	1
Nine	2	1	2	1

GCSE
SCIENCE A (4461)/BIOLOGY (4411)
Objective Test Answer Key
BLY1AP (Human Biology)
June 2009
Higher Tier

Question	Key			
One	A motor neurone	3		
	B muscle	4		
	C sensory neurone	1		
	D synapse	2		
Two	A antibodies	4		
	B antitoxins	2		
	C pathogens	1		
	D toxins	3		
	A	B	C	D
Three	4	3	3	1
Four	2	1	2	1
Five	4	2	4	2
Six	1	4	1	4
Seven	4	1	1	4
Eight	3	4	1	1
Nine	2	4	4	4

Unit : BLY1AP BIOLOGY UNIT 1A

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	motor neurone	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B	muscle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1C	sensory neurone	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1D	synapse	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO		1	2	3	4
2A	antibodies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B	antitoxins	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C	pathogens	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D	toxins	<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"/>

For AQA Office Use Only

2206



2206

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	kills bacteria	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B	linked to lung disease	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1C	an addictive, illegal drug	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1D	relieves some disease symptoms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	QUESTION TWO	1	2	3	4
2A	has receptors that are sensitive to the smell...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B	has receptors that would detect heat...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C	has receptors that are sensitive to the taste...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D	has receptors that enable the girl to read...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	QUESTION THREE	1	2	3	4
3A	glands	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3B	kidneys	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3C	lungs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3D	skin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	QUESTION FOUR	1	2	3	4
4A	200	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4B	2000	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4C	4000	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4D	5200	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	QUESTION FIVE	1	2	3	4
5A	motor neurone	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5B	muscle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5C	sensory neurone	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5D	synapse	<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"/>	<input type="radio"/>
6B	<input type="radio"/>	<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"/>	<input type="radio"/>
6D	<input type="radio"/>	<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"/>	<input type="radio"/>
7B	<input type="radio"/>	<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"/>	<input type="radio"/>
7D	<input type="radio"/>	<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"/>	<input type="radio"/>
8B	<input type="radio"/>	<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"/>	<input type="radio"/>
8D	<input type="radio"/>	<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"/>	<input type="radio"/>
9B	<input type="radio"/>	<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"/>	<input type="radio"/>
9D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

For AQA Office Use Only

2206



2206