GCSE

Science A (4461) / Chemistry (4421)

Specification A

CHY1BP, CH1BSF & CH1BSH

Mark Scheme

2011 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.

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GCSE

SCIENCE A (4461)/CHEMISTRY (4421)

Objective Test Answer Key

CHY1BP (Oils, Earth and Atmosphere)

November 2011

Foundation Tier

Question	Key		
One	**A**	ammonia	**4**
	B	carbon dioxide	**1**
	C	nitrogen	**3**
	D	oxygen	**2**
Two	**A**	can withstand high temperatures and is non-stick	**2**
	B	can be stretched into fibres	**3**
	C	makes a very light, solid foam which is a good . . .	**1**
	D	strong, rigid and a good electrical insulator	**4**
Three	**A**	burned in oxygen	**3**
	B	reacted with bromine water	**4**
	C	reacted with hydrogen	**2**
	D	shaken with water	**1**
Four	**A**	5 %	**2**
	B	10 %	**1**
	C	40 %	**3**
	D	55 %	**4**
Five	**A**	abundance	**4**
	B	colour	**2**
	C	density	**3**
	D	reactivity	**1**

	A	**B**	**C**	**D**
Six	**2**	**3**	**2**	**3**
Seven	**4**	**3**	**1**	**1**
Eight	**1**	**2**	**4**	**2**
Nine	**1**	**3**	**1**	**3**

GCSE

SCIENCE A (4461)/CHEMISTRY (4421)

Objective Test Answer Key

CHY1BP (Oils, Earth and Atmosphere)

November 2011

Higher Tier

Question	Key		
One	**A**	abundance	**4**
	B	colour	**2**
	C	density	**3**
	D	reactivity	**1**
Two	**A**	Ethane	**4**
	B	Ethanol	**3**
	C	Ethene	**2**
	D	Poly(ethene)	**1**

	A	**B**	**C**	**D**
Three	**1**	**2**	**4**	**2**
Four	**1**	**3**	**1**	**3**
Five	**1**	**4**	**1**	**4**
Six	**2**	**1**	**4**	**4**
Seven	**4**	**1**	**1**	**3**
Eight	**1**	**3**	**2**	**4**
Nine	**4**	**1**	**3**	**2**

The AQA UMS Conversion Calculator can be found at the following web address:

http://www.aqa.org.uk/umsconversion

OTQ3

GCSE SCIENCE

AQA

Unit : CHY1BP **CHEMISTRY UNIT 1B**

Centre :

Candidate Number : **UCI :**

Candidate Name :

Series : BG11

15-NOV-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	abundance	○	○	○	○
1B	colour	○	○	○	○
1C	density	○	○	○	○
1D	reactivity	○	○	○	○

QUESTION TWO		1	2	3	4
2A	Ethane	○	○	○	○
2B	Ethanol	○	○	○	○
2C	Ethene	○	○	○	○
2D	Poly(ethene)	○	○	○	○

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	○	○	○	○

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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 ammonia	○	○	○	○
1B carbon dioxide	○	○	○	○
1C nitrogen	○	○	○	○
1D oxygen	○	○	○	○

QUESTION TWO	1	2	3	4
2A can withstand high temperatures and is non-stick	○	○	○	○
2B can be stretched into fibres	○	○	○	○
2C makes a light, solid foam which is a good heat insulator	○	○	○	○
2D strong, rigid and a good electrical insulator	○	○	○	○

QUESTION THREE	1	2	3	4
3A burned in oxygen	○	○	○	○
3B reacted with bromine water	○	○	○	○
3C reacted with hydrogen	○	○	○	○
3D shaken with water	○	○	○	○

QUESTION FOUR	1	2	3	4
4A 5%	○	○	○	○
4B 10%	○	○	○	○
4C 40%	○	○	○	○
4D 55%	○	○	○	○

QUESTION FIVE	1	2	3	4
5A abundance	○	○	○	○
5B colour	○	○	○	○
5C density	○	○	○	○
5D reactivity	○	○	○	○

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	○	○	○	○

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