



GCSE

Science A (4461)

Specification A

CHY1AP, CH1ASF & CH1ASH

Mark Scheme

2010 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) / CHEMISTRY (4421)
Objective Test Answer Key
CHY1AP (Products from Rocks)
June 2010
Foundation Tier

Question	Key			
One	A	It is where thermal decomposition takes place.		3
	B	It is where only natural substances are mixed.		2
	C	It is where a natural substance is mixed with a man-made substance.		4
	D	It is where limestone is obtained.		1
Two	A	Alloy A		1
	B	Alloy B		3
	C	Alloy C		4
	D	Alloy D		2
Three	A	bonds		4
	B	electrons		3
	C	elements		2
	D	nuclei		1
Four	A	LPG		1
	B	Diesel		4
	C	Ethanol		3
	D	Hydrogen		2
Five	A	nitrogen dioxide		4
	B	carbon monoxide		3
	C	carbon dioxide		2
	D	soot (carbon)		1
	A	B	C	D
Six	2	3	1	1
Seven	1	2	3	4
Eight	2	1	1	2
Nine	3	4	3	1

GCSE
SCIENCE A (4461) / CHEMISTRY (4421)
 Objective Test Answer Key
CHY1AP (Products from Rocks)
June 2010
 Higher Tier

Question	<i>Key</i>			
One	A	nitrogen dioxide	4	
	B	carbon monoxide	3	
	C	carbon dioxide	2	
	D	soot (carbon)	1	
Two	A	Substance A	3	
	B	Substance B	2	
	C	Substance C	4	
	D	Substance D	1	
	A	B	C	D
Three	2	1	1	2
Four	3	4	3	1
Five	3	1	1	2
Six	3	4	2	4
Seven	2	3	3	1
Eight	2	4	2	2
Nine	2	4	4	3

Unit : CHY1AP CHEMISTRY UNIT 1A

Centre :

Candidate Number :

UCI :

Series : 6M10

Candidate Name :

28-JUN-10

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	nitrogen dioxide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B	carbon monoxide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1C	carbon dioxide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1D	soot (carbon)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO		1	2	3	4
2A	Substance A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B	Substance B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C	Substance C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D	Substance D	<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	Thermal decomposition takes place.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B	Only natural substances are mixed.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1C	A natural substance is mixed with a man-made substance.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1D	Limestone is obtained.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO		1	2	3	4
2A	Alloy A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B	Alloy B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C	Alloy C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D	Alloy D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION THREE		1	2	3	4
3A	bonds	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3B	electrons	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3C	elements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3D	nuclei	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION FOUR		1	2	3	4
4A	LPG	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4B	Diesel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4C	Ethanol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4D	Hydrogen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION FIVE		1	2	3	4
5A	nitrogen dioxide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5B	carbon monoxide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5C	carbon dioxide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5D	soot (carbon)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION SIX		1	2	3	4
6A	<input type="radio"/>				
6B	<input type="radio"/>				
6C	<input type="radio"/>				
6D	<input type="radio"/>				

QUESTION SEVEN		1	2	3	4
7A	<input type="radio"/>				
7B	<input type="radio"/>				
7C	<input type="radio"/>				
7D	<input type="radio"/>				

QUESTION EIGHT		1	2	3	4
8A	<input type="radio"/>				
8B	<input type="radio"/>				
8C	<input type="radio"/>				
8D	<input type="radio"/>				

QUESTION NINE		1	2	3	4
9A	<input type="radio"/>				
9B	<input type="radio"/>				
9C	<input type="radio"/>				
9D	<input type="radio"/>				

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