



GCSE

Science A (4461)

Specification A

CHY1BP, CH1BSF & CH1BSH

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)/CHEMISTRY (4421)
 Objective Test Answer Key
CHY1BP (Oils, Earth and Atmosphere)
June 2009
 Foundation Tier

Question	Key			
One	A	Atmosphere		1
	B	Core		4
	C	Crust		2
	D	Mantle		3
Two	A	PTFE		2
	B	Nylon		3
	C	Polystyrene		1
	D	PET		4
Three	A	It is the gas that is a compound		2
	B	It is the most abundant of the noble gases.		1
	C	It is the noble gas with the lowest boiling point		4
	D	There are 18 cm ³ of this gas in 100 litres of air		3
Four	A	can release a large quantity of energy		1
	B	is biodegradable		2
	C	is obtained from a vegetable source		3
	D	is unsaturated		4
Five	A	Molecule A		1
	B	Molecule B		4
	C	Molecule C		2
	D	Molecule D		3
	A	B	C	D
Six	2	1	2	2
Seven	3	1	1	2
Eight	4	2	3	3
Nine	2	3	1	4

GCSE
SCIENCE A (4461)/CHEMISTRY (4421)
 Objective Test Answer Key
CHY1BP (Oils, Earth and Atmosphere)
June 2009
 Higher Tier

Question	Key			
One	A	Molecule A		1
	B	Molecule B		4
	C	Molecule C		2
	D	Molecule D		3
Two	A	polymerisation		4
	B	thermal decomposition		1
	C	unsaturation		2
	D	hydration (addition of water)		3
	A	B	C	D
Three	4	2	3	3
Four	2	3	1	4
Five	4	3	1	1
Six	4	*	2	4
Seven	2	1	1	3
Eight	1	4	4	3
Nine	2	2	2	4

* This question has been removed

Unit : CHY1BP CHEMISTRY 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 Molecule A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B Molecule B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1C Molecule C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1D Molecule D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO

	1	2	3	4
2A polymerisation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B thermal decomposition	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C unsaturation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D hydration (addition of water)	<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	Atmosphere	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B	Core	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1C	Crust	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1D	Mantle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	QUESTION TWO	1	2	3	4
2A	PTFE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B	Nylon	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C	Polystyrene	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D	PET	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	QUESTION THREE	1	2	3	4
3A	It is the gas that is a compound.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3B	It is the most abundant of the noble gases.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3C	It is the noble gas with the lowest boiling point.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3D	There are 18 cubic cm of this gas in 100 litres of air.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	QUESTION FOUR	1	2	3	4
4A	can release a large quantity of energy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4B	is biodegradable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4C	is obtained from a vegetable source	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4D	is unsaturated	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	QUESTION FIVE	1	2	3	4
5A	Molecule A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5B	Molecule B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5C	Molecule C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5D	Molecule D	<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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