



GCSE

Science A (4461)

Specification A

CHY1BP, CH1BSF & CH1BSH

Mark Scheme

2010 Examination – March 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)
March 2010
Foundation Tier

Question	Key			
One	A	oxygen		1
	B	nitrogen		4
	C	carbon dioxide		2
	D	helium		3
Two	A	E150		1
	B	E210		4
	C	E300		3
	D	E450		2
Three	A	Maize		3
	B	Sunflower		2
	C	Coconut		4
	D	Algae		1
Four	A	Kevlar		3
	B	Acrylic		1
	C	66 Nylon		2
	D	Polyester		4
Five	A	The modified oil solidifies and additives are mixed in		4
	B	Soybean oil is used as biofuel in vehicles		3
	C	Soybean oil separates from the water		2
	D	Mixture of soybean seeds and water is pressed		1
	A	B	C	D
Six	2	2	2	4
Seven	2	1	3	4
Eight	3	2	1	1
Nine	4	4	2	3

GCSE
SCIENCE A (4461)/CHEMISTRY (4421)
 Objective Test Answer Key
CHY1BP (Oils, Earth and Atmosphere)
March 2010
 Higher Tier

Question	<i>Key</i>			
One	A	The modified oil solidifies and additives are mixed in		4
	B	Soybean oil is used as biofuel in vehicles		3
	C	Soybean oil separates from the water		2
	D	Mixture of soybean seeds and water is pressed		1
Two	A	Ethane		1
	B	Ethene		2
	C	Ethanol		4
	D	Hydrogen		3
	A	B	C	D
Three	3	2	1	1
Four	4	4	2	3
Five	2	3	3	2
Six	2	1	4	3
Seven	3	3	2	1
Eight	2	1	2	1
Nine	3	2	2	2

Unit : CHY1BP CHEMISTRY UNIT 1B

Centre :

Candidate Number :

UCI :

Series : 3G10

Candidate Name :

03-MAR-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 The modified oil solidifies and additives are mixed in 1 2 3 4
- 1B Soybean oil is used as biofuel in vehicles 1 2 3 4
- 1C Soybean oil separates from the water 1 2 3 4
- 1D Mixture of soybean seeds and water is pressed 1 2 3 4

QUESTION TWO

1 2 3 4

- 2A Ethane 1 2 3 4
- 2B Ethene 1 2 3 4
- 2C Ethanol 1 2 3 4
- 2D Hydrogen 1 2 3 4

QUESTION THREE

1 2 3 4

- 3A 1 2 3 4
- 3B 1 2 3 4
- 3C 1 2 3 4
- 3D 1 2 3 4

QUESTION FOUR

1 2 3 4

- 4A 1 2 3 4
- 4B 1 2 3 4
- 4C 1 2 3 4
- 4D 1 2 3 4

QUESTION FIVE

1 2 3 4

- 5A 1 2 3 4
- 5B 1 2 3 4
- 5C 1 2 3 4
- 5D 1 2 3 4

QUESTION SIX

1 2 3 4

- 6A 1 2 3 4
- 6B 1 2 3 4
- 6C 1 2 3 4
- 6D 1 2 3 4

QUESTION SEVEN

1 2 3 4

- 7A 1 2 3 4
- 7B 1 2 3 4
- 7C 1 2 3 4
- 7D 1 2 3 4

QUESTION EIGHT

1 2 3 4

- 8A 1 2 3 4
- 8B 1 2 3 4
- 8C 1 2 3 4
- 8D 1 2 3 4

QUESTION NINE

1 2 3 4

- 9A 1 2 3 4
- 9B 1 2 3 4
- 9C 1 2 3 4
- 9D 1 2 3 4

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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

	1	2	3	4
QUESTION ONE				
1A oxygen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B nitrogen	<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 helium	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	1	2	3	4
QUESTION TWO				
2A E150	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B E210	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C E300	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D E450	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	1	2	3	4
QUESTION THREE				
3A Maize	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3B Sunflower	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3C Coconut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3D Algae	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	1	2	3	4
QUESTION FOUR				
4A Kevlar	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4B Acrylic	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4C 66 Nylon	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4D Polyester	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	1	2	3	4
QUESTION FIVE				
5A The modified oil solidifies and additives are mixed in	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5B Soybean oil is used as biofuel in vehicles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5C Soybean oil separates from the water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5D Mixture of soybean seeds and water is pressed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	1	2	3	4
QUESTION SIX				
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"/>

	1	2	3	4
QUESTION SEVEN				
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"/>

	1	2	3	4
QUESTION EIGHT				
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"/>

	1	2	3	4
QUESTION NINE				
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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