CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

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5070 CHEMISTRY

5070/41

Paper 4 (Alternative to Practical), maximum raw mark 60

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2012 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

Page 2	Mark Scheme	Syllabus Syllabus
	GCE O LEVEL – October/November 2012	5070 730
(a) C (1)		PINBA
(b) E (1)		193
(c) B (1)		
(d) D (1)		[Total: 4]
(a) (i) silve	ery/grey metal or solid (1)	
(ii) whit	e powder/solid (1)	
(b) (i) hyd	rogen (1)	
(ii) pop	s in a flame (1)	
(iii) Mg	+ $2HCl \rightarrow MgCl_2$ + $H_2(1)$	
(c) (i) burr	n or heat magnesium in oxygen, air or steam (1)	
(ii) 2Mg	$g + O_2 \rightarrow 2MgO$	
<u>or</u> Mg	+ $H_2O \rightarrow MgO$ + H_2 (1)	[Total: 7]
(a) add anh	ydrous copper(II) sulfate (1)	
colour cl	hanges from white (1) to blue (1)	
<u>or</u>		
add anh	ydrous cobalt(II) chloride or cobalt chloride paper (1)	
colour e	hanges from blue (1) to pink (1)	
(b) measure	e the boiling point (1)	
boils at [·]	100 °C (1)	[Total: 5]
(a) pass gas	s through lime water; turns milky/white (1)	
(b) (i) effe	rvescence or fizzing ceases (1)	

(ii) solid remains (1)

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	Pa	ge 3	60		Mark Scheme	e Iovember 2012	Syllabus	Pap.
	(c)	filtration	a Cambride					
	(d)	0.05 (1)						3e.C
	(e)	(i) mol	lar mass					
		(ii) volu	ume of (CO ₂ = 0.0	5 x 24000 = 120	00 cm ³ (1)		[Total: 8]
5	(d)	(1)						[Total: 1]
6	(b)	(1)						[Total: 1]
7	(a)	(1)						[Total: 1]
B	(d)	(1)						[Total: 1]
)	(a)	pink to o						
	(b)	27.1	48.8	34.1	1 mark for eac	h correct row or co	olumn (3)	
		0.0	22.3	7.8				
		27.1	26.5	26.3				
		mean ti	tre: 26.4	(1) cm ³				
	(c)	0.0025 (1) 0.0025 (1)						
	(d)							
	(e)	0.0947	(1)					
	(f)	74 (1)						
	(g)	74 – 45						
		<i>n</i> = 2 (1)					
		C₂H₅CC	0₂H (1)					



(d) greater slope (1) same finishing line as 1(1)

[Total: 11]