UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS **GCE Ordinary Level** 

## www.papacambridge.com MARK SCHEME for the May/June 2011 question paper

## for the guidance of teachers

## **5070 CHEMISTRY**

5070/32

Paper 3 (Practical Test), maximum raw mark 40

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.

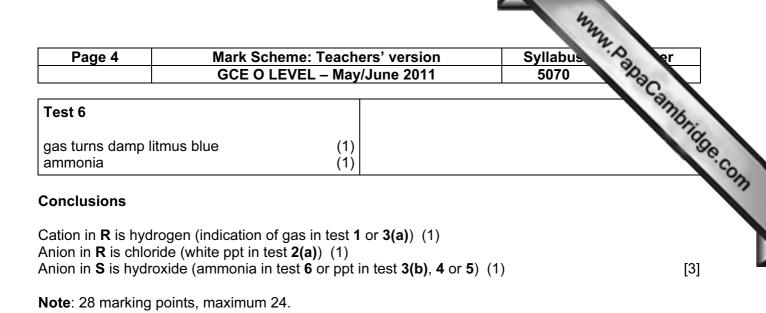
Mark schemes must be read in conjunction with the question papers and the report on the examination.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2						Syllabus 5070	Ne.	er
			_EVEL – IViay	June Zui i		5070	20	3
(a) Titratic	)n							mbri
<u>Accura</u>	су	8 marks						39
4 r 2 r	narks for narks for	a value wit	hin 0.2 cm <sup>3</sup> of hin 0.3 cm <sup>3</sup> of in 0.4 cm <sup>3</sup> of §	Supervisor			MMM Rapa	
Concor	<u>dance</u>	3 marks						
2 r	narks if a	all the ticked	values are w values are w values are wit	ithin 0.3 cm <sup>3</sup>				
Averag	e	1 mark						
Give 1 the tick			e calculates a	correct avera	ge (error ı	not greater	than 0.05)	of all
	ed value	S.						
Assuming a			a titre of 24.8	cm <sup>3</sup> :				
-	a 25 cm <sup>3</sup>			cm <sup>3</sup> :				[2]
(b) concen	a 25 cm <sup>3</sup>	pipette and f iodine in <b>P</b>		cm <sup>3</sup> :				[2]
( <b>b</b> ) concern = $\frac{24.8}{2\times}$	a 25 cm³   ntration o	pipette and f iodine in <b>P</b>		cm <sup>3</sup> :				[2]
(b) concern = $\frac{24.8}{2\times}$ = 0.049	a 25 cm <sup>3</sup> p ntration of $\frac{\times 0.1}{25}$ (1) 96 mol/dn	pipette and f iodine in <b>P</b> n <sup>3</sup> (1)		cm <sup>3</sup> : the third signifi	icant figur	e.		[2]
(b) concern = $\frac{24.8}{2\times}$ = 0.049 Answer	a 25 cm <sup>3</sup> p intration of $\frac{\times 0.1}{25}$ (1) 96 mol/dn rs should	pipette and f iodine in <b>P</b> n <sup>3</sup> (1)	to + or – 1 in 1		icant figur	e.		[2]
(b) concern $= \frac{24.8}{2 \times}$ = 0.049 Answer (c) mass of	a 25 cm <sup>3</sup> p intration of $\frac{\times 0.1}{25}$ (1) 96 mol/dn rs should	pipette and f iodine in <b>P</b> n <sup>3</sup> (1) I be correct in 1 dm <sup>3</sup> of <b>F</b>	to + or – 1 in 1		cant figur	e.		
(b) concern $= \frac{24.8}{2 \times}$ = 0.049 Answer (c) mass of	a 25 cm <sup>3</sup> p intration of $\frac{\times 0.1}{25}$ (1) 96 mol/dn rs should of iodine i 96 × 254	pipette and f iodine in <b>P</b> n <sup>3</sup> (1) I be correct in 1 dm <sup>3</sup> of <b>F</b>	to + or – 1 in 1		icant figur	e.		
(b) concern $= \frac{24.8}{2 \times}$ $= 0.049$ Answer (c) mass of = 0.049 $= 12.69$	a 25 cm <sup>3</sup> p ntration of $\frac{\times 0.1}{25}$ (1) 96 mol/dn rs should of iodine i 96 × 254	pipette and f iodine in <b>P</b> n <sup>3</sup> (1) I be correct in 1 dm <sup>3</sup> of <b>F</b>	to + or – 1 in 1		icant figur	e.		
(b) concern $= \frac{24.8}{2\times}$ $= 0.049$ Answer (c) mass of = 0.049 $= 12.69$ (d) amount	a 25 cm <sup>3</sup> p itration of $\frac{\times 0.1}{25}$ (1) 26 mol/dn rs should of iodine i 26 × 254 g t of iodine	pipette and f iodine in <b>P</b> n <sup>3</sup> (1) I be correct in 1 dm <sup>3</sup> of <b>F</b>	to + or – 1 in 1		icant figur	e.		[1]
(b) concern $= \frac{24.8}{2\times}$ $= 0.049$ Answer (c) mass of = 0.049 $= 12.69$ (d) amount	a 25 cm <sup>3</sup> p itration of $\frac{\times 0.1}{25}$ (1) 26 mol/dn rs should of iodine i 26 × 254 g t of iodine × 100000	pipette and f iodine in <b>P</b> n <sup>3</sup> (1) I be correct in 1 dm <sup>3</sup> of <b>F</b> e present in	to + or – 1 in 1		cant figur	e.		[1]

Pag		Mark Scheme: Teach GCE O LEVEL – Ma	Syllabus 7.0 er 5070 Pb er			
2     R is hydrochloric acid     S is sodium hydroxide						
Test			Notes			
For ppt	<b>I points</b> blid, suspension, po	owder		Syllabus 5070 Buccombi		
	f gas requires test	to be at least partially as vigorously evolved				
Solution Colourle		o clear, clear not equ	ivalent to colourless			
Solution	n <b>R</b>		-			
Test 1						
carbon o	ns limewater milky	(1) (1) (1) (1)				
Test 2						
(a)	white ppt	(1)	).			
(b)	soluble in excess colourless solution	(1) า (1)				
Test 3						
(a)	effervescence gas pops with a lig hydrogen liquid gets hot solid disappears	(1) ghted splint (1) (1) (1) (1)				
(b)	white ppt insoluble in exces	s (1)				
Test 4						
	ot in excess ss solution	(1) (1) (1)				
Test 5						
(a)	green ppt soluble in excess green solution	(1) (1) (1)				
(b)	green ppt soluble in excess green solution	(1) (1) (1)				



[Total: 24]