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

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5070 CHEMISTRY

5070/03

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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

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

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

CIE is publishing the mark schemes for the May/June 2007 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



Average

[1]

Give 1 mark if the candidate calculates a correct average (error not greater than 0.05) of all his ticked values.



mass = 0.0960 × 56 = 5.38

(d) % of iron

% = (5.38/6.00) × 100 = 89.6 %

[1]

[1]

Mark consequentially throughout. All answers are required to three significant figures but penalise over approximation only once

		the way
Page 4	Mark Scheme	Syllabus of er
	GCE O LEVEL – May/June 2007	5070 20-

2 24 marks

	2			
Pa	age 4	Mark Scheme	Syllabus	er
		GCE O LEVEL – May/June 2007	5070 20	
			1	2
2 24	mo o vilco			716.
Z 24	marks			Tig.
R is ca	lcium chlor	ide. S is zinc sulphate. T is lead(II) nitrate		30
11 13 04				.62.
Tests o	on R			17
Test 1	2 marks			
	white pp			
	insoluble	in excess		[1]
Test 2	2 marks			
	no reacti	on initially		[1]
	white pp	. on standing		[1]
Test 3	3 marks			
	white pp			[1]
	soluble i	n excess		[1]
	colourles	s solution		[1]
Test 4	1 mark			
	white pp			[1]

Tests o	Tests on S		
Test 1	3 marks		
	white ppt.	[1]	
	soluble in excess	[1]	
	colourless solution	[1]	
Test 2	1 mark		
	no reaction	[1]	
Test 3	1 mark		
	no reaction	[1]	
Test 5	1 mark		
	white ppt.	[1]	

Tests of	Tests on T		
Test 1	3 marks		
	white ppt.	[1]	
	soluble in excess	[1]	
	colourless solution	[1]	
Test 2	1 mark		
	white ppt.	[1]	
Test 3	3 marks		
	white ppt.	[1]	
	soluble in excess	[1]	
	colourless solution	[1]	

			the second	
Page 5		Mark Scheme	Syllabus ?	er
	GCE	O LEVEL – May/June 2007	5070	Da
Conclusions	4 mark	(S		Cannot.
The anion in R is The anion in S is Any two of	C1 ⁻ SO ₄ ²	(white ppt. required in Test 4 with R) (white ppt. required in Test 5 with S)		'age.co.
The cation in R is The cation in S is The cation in T is	Ca ²⁺ Zn ²⁺ or A <i>l</i> ³⁺ Pb ²⁺	(white ppt. insoluble in excess NaOH (white ppt. soluble in excess NaOH r (white ppt. soluble in excess NaOH r ppt. in Test 2)	required in Test 1 equired in Test 1 wi equired in Test 1 wi	with R) ith S) [1] ith T and white
Any 24 marks to	score.	ppt. in 100(2)		[']