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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE O Level

MARK SCHEME for the May/June 2006 question paper

5070 CHEMISTRY

5070/03 Paper 3 maximum raw mark 40

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which Examiners were initially instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

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 discussion or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the May/June 2006 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses

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	Page 2		Mark Scheme GCE O Level – May/June 2006	Syllabus 5070	1	
			-	5070	2	
1	16 m	marks				
	(a)	titra	ation		Tide	
		3 m	narks for each of two titration results within 0.2 cm narks for results within 0.3 cm ³ etc. marks for results more than 0.5 cm ³ from the supe	³ of the Supervisor's value ervisor's value	Cambridge.	
		ma	ximum of 3 marks for concordance, i.e. results wit	thin 0.2 cm³		
		1 m	nark for taking a correct average			
	(b)	cor	ncentration of X		[2]	
		me	thod (1) answer (1)			
	(c)	M _r (of X		[2]	
		me	thod (1) answer (1)			
2	24 m	arke				
_			manganese(IV) oxide)			
	Test		effervesces		[1]	
			gas relights a glowing splint		[1]	
			oxygen produced		[1]	
			exothermic reaction		[1]	
			solid is insoluble (or appears unchanged)		[1]	
	Test	2	effervesces		[1]	
			gas bleaches litmus		[1]	
			chlorine produced		[1]	
			brown solution		[1]	
			S (manganese(II) sulphate)		F01	
	Test	S	beige ppt/pale brown		[2]	
			insoluble in excess		[1]	
			darkens on the surface		[1]	
			brown ppt		[1]	
			effervesces		[1]	
			gas relights a glowing splint or oxygen produc	ced	[1]	
	Test	4	no reaction		[1]	
			no reaction		[1]	
	Test	5	white ppt		[1]	
			insoluble in acid		[1]	

[1]

Test 6

brown ppt

Page 3	Mark Scheme	Syllabus
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Conclusio	un.	andric
Considere	In Test 1 R is a catalyst	Joe C.
	In Test 2 R is an oxidising agent	[1]
	The opion is a sulphoto	[4]

The anion is a sulphate

Any 24 marks to score.

[1]