UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

GCE Ordinary Level

MARK SCHEME for the November 2005 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 November 2005 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



Page 1	Mark Scheme Syllabus	Paper
	GCE O LEVEL – November 2005 5070	3
20 ma	rks	
(a)	Identification of the acid	
Test 1	Effervesces	(1)
	Gas pops with a lit splint	(1)
	Hydrogen evolved	(1)
Test 2	No reaction	(1)
Test 3	White ppt	(1)
	Acid is hydrochloric acid	(1)
(b)	 (b) Titration 4 marks for each of two titration results within 0.2 cm³ of the Supervisor's value. 2 marks for results within 0.3 cm³ etc No marks for results more than 0.4 cm³ from the supervisor's value 	
	Maximum of 3 marks for concordance, i.e. results within	$n 0.2 \text{ cm}^3$
	1 mark for taking a correct average	
(c)	concentration of acid in mol/dm ³	(2)

Page 2	Mark Scheme	Syllabus	Paper
	GCE O LEVEL – November 2005	5070	3
20 marl	S is aluminium chloride T is lead nitrate U is silver nitrate		
Solution	n S		
Test 1	White ppt Soluble in excess sodium hydroxide Colourless solution		(1) (1) (1)
	Insoluble in excess ammonia		(1)
Test 2	No reaction		(1)
Test 3	No reaction		(1)
Solution	n T		
Test 1	White ppt Soluble in excess sodium hydroxide Colourless solution		(1) (1) (1)
	Insoluble in excess ammonia		(1)
Test 2	White ppt		(1)
Test 3	Yellow ppt		(1)
Solution	n U		
Test 1	brown ppt Insoluble in excess sodium hydroxide		(1) (1)
	Soluble in excess ammonia Colourless solution		(1) (1)
Test 2	White ppt		(1)
Test 3	pale yellow ppt		(1)
Conclus	Sion Any two of S is Al^{3+} , T is Pb^{2+} , U is Ag^{+}		(2)