UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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0620 CHEMISTRY

0620/06

Paper 6 (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.

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.

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Page 2	Mark Scheme GCSE – May/June 2008	Syllabus Provide Provide Syllabus Provide Prov
(a) boxes correctly complete		Syllabus 0620 Bathac and er 0620
measuring cylinder (1)		(Brit
spatula (1)	,	
tripod (1)		[3]
		۲۰.
(b) more than enough to r	react owtte (1)	[1]
(c) diagram showing filter	paper in a funnel (1) either labelled ((1) [2]
		[Total: 6]
(a) (i) electrodes lobelle	d = correctly(1)	[1]
(ii) carbon/graphite o		[1]
(b) bulb lights/brownish/re	ed/orange gas/liquid/bubbles/silver be	eads formed/melts in tube $[max 2]$
(c) any correct protective	clothing e.g. gloves/lab coat (1)	
fume cupboard/well ve	entilated room (1)	[2]
		[Total: 6]
(a) boxes completed corre	ectly to show position of hydrochloric	acid (1)
and sodium sulphite (1		[2]
(b) arrow underneath flasl	k (1)	[1]
	through water (1) ed by upward delivery (1)	[2]
		[Total: 5]
Table of results		
Experiment 1 initial and final volume box	es correctly completed (1), 0.0 and 2	6.0
Experiment 2	es correctly completed (2), 16.0 and	20.0

Page 3	Mark Scheme IGCSE – May/June 2008	Syllabus er 0620
(e) (i) Expe	eriment 1 (1)	Can
(ii) more	e in Experiment 1/greater volume (1) ×2 (1	
(iii) solut	tion A more concentrated/stronger than B	Syllabus er 0620 0400 Comment) (1) X2 (1)
(5) twice the	welling welling for Experiment 2/26 (1)	
(f) twice the	volume value for Experiment 2/26 (1)	cm ³ (1)
(g) change e	e.g. repeat titrations (1) or use a burette/pi	pette
explanati	on e.g. average reading more accurate (1) instead of m/cylinder
(h) (i) iron(II) ions present (1)	
(ii) iron(III) ions (1)	
		[Total:
Tests on solid	Τt	
(b) (ii) white	e (1) precipitate (1) insoluble in	excess (1)
• •	light (1) precipitate (1) max 4 for (ii) eaction (1) only	and (iii)
(e) weak (1)	acids (1)	
(f) copper p	resent(1) ethanoic acid/organic salt (1)	
		[Total:
(a) Table of	results	
volumes	correctly completed (4), -1 for each incorrectly	ect
0, 18,	34, 42, 59, 63, 63	
	otted correctly (3), -1 for each incorrect	
smooth li	ne curve (1)	
(c) reaction	finished/all acid used up (1)	
(d) point at 3	3 minutes/at 42 cm ³ (1) does not fit cu	rve owtte (1)
(e) sketch lir	ne below plotted curve (1) levels off arou	nd 30 cm ³ (1)



