UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2008 question paper

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	Syllabus	Paper		
			IGCSE – May/June 2008	0620	06		
1	(a)	a) boxes correctly completed					
		measuring cylinder (1)					
		spatula (1)				
		tripod (1)			[3]		
	(b)	more tha	in enough to react owtte (1)		[1]		
	(c)	diagram	showing filter paper in a funnel (1) either labelled (1)	[2]		
					[Total: 6]		
2	(a)	(i) elect	trodes labelled correctly (1)		[1]		
		(ii) carb	on/graphite or platinum (1)		[1]		
	(b) bulb lights/brownish/red/orange gas/liquid/bubbles/silver beads formed/melts in tube [max						
	(c)	any corre	ect protective clothing e.g. gloves/lab coat (1)				
		fume cup	oboard/well ventilated room (1)		[2]		
					[Total: 6]		
3	(a)		ompleted correctly to show position of hydrochloric a um sulphite (1)	acid (1)	[2]		
	(b)	arrow un	derneath flask (1)		[1]		
	(c)	mistakes	passed through water (1) collected by upward delivery (1)		[2]		
					[Total: 5]		
4	Tab	Table of results					
	Experiment 1 initial and final volume boxes correctly completed (1), 0.0 and 26.0						
		Experiment 2 initial and final volume boxes correctly completed (2), 16.0 and 29.0					
	diffe	erences co	ompleted correctly (1), 26.0 and 13.0		[4]		

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(e) (i) Expe	eriment 1 (1)	0020	[1]		
., ., .,	e in Experiment 1/greater volume (1) ×	×2 (1)	[2]		
(iii) solu	tion A more concentrated/stronger tha	an B (1) X2 (1)	[2]		
(6) Luis 41-		3 (4)	101		
(f) twice the	e volume value for Experiment 2/26 (1)) cm ³ (1)	[2]		
(g) change e	(g) change e.g. repeat titrations (1) or use a burette/pipette				
explanat	ion e.g. average reading more accurat	te (1) instead of m/cylinder	[2]		
(h) (i) iron((II) ions present (1)		[1]		
(ii) iron((III) ions (1)		[1]		
			[Total: 15]		
5 Tests on soli	d T				
(b) (ii) white	e (1) precipitate (1) insoluble	e in excess (1)	[2]		
	light (1) precipitate (1) max 4 fo eaction (1) only	or (ii) and (iii)	[2]		
(a)al. (4)	- ide (4)		101		
(e) weak (1)	acids (1)		[2]		
(f) copper p	oresent(1) ethanoic acid/organic salt	(1)	[2]		
			[Total: 8]		
6 (a) Table of					
	correctly completed (4), -1 for each in	ncorrect	[4]		
0, 10,	0, 18, 34, 42, 59, 63, 63				
	otted correctly (3), -1 for each incorrectine curve (1)	et	[4]		
(c) reaction	finished/all acid used up (1)		[1]		
(d) point at 3	3 minutes/at 42 cm ³ (1) does not f	fit curve owtte (1)	[2]		
(e) sketch lir	ne below plotted curve (1) levels off a	around 30 cm³ (1)	[2]		
• •	. , ,	, ,	[Total: 13]		

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7 (a) test red litmus (1) or other named indicator

result blue (1) [2]

(b) fractional (1) distillation (1) fractionation (1) [2]

(c) blue cobalt chloride paper (1) turns pink (1)

OR anhydrous/white copper sulphate (1) turns blue (1) [2]

(d) catches fire owtte (1) [1]

[Total: 7]

[Total for paper: 60]