

June 2003

INTERNATIONAL GCSE

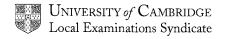
MARKING SCHEME

MAXIMUM MARK: 60

SYLLABUS/COMPONENT: 0620/06

CHEMISTRY

(Alternative to Practical)



Page 1	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – June 2003	0620	6

1	(a)	A = mortar (1) B = stirrer/stirring rod (1) C = tripod (1) D = Bunsen Burner (1)	ot thermometer	[4]
	(b)	filtration		[1]
	(c)	D or description		[1]
2		because precipitate formed/goes cloud	hv (1)	[,]
	(a)	sulphur (1)/turbid	y (')	[2]
	(b)	reference to fair test/comparison/same	edepth	[1]
	(c)	sodium thiosulphate/water 1st/2nd acid,	last	[1]
	(d) (i)	all points correct (3), -1 for any incorre smooth line (1)	ct	
	(::)	label (1)		[5]
	(ii)	line lower down (1) does not touch other line (1)		[2]
	(e)	times would be longer (1) because sol surface area/depth (1)	ution more spread out/reference to	[2]
3		Table of results correct burette readings in table (3) i.e. 16.8, 17.1 and 25.5	or 17.2, 18.9, 26.5	
		Differences correctly completed (1) i.e. 8.4	Difference 7.6	[4]
	(a) (i) (ii)	Experiment 1 twice volume/more than twice as much	1	[1] [1]
	(iii	Solution B was 2x (1) concentration of B more concentrated than C (1 only)	C (1) or similar	[2]
	(iv	0		[3]
	(b)	reference to accuracy (1) indicator (1)/	easier to see	[2]
	,	not test for I ₂ max 2		
4	(c)	effervescence/fizz/bubbles (1)		
		limewater milky (1)/blue solution		[2]
	(d) (ii)	blue (1) precipitate (1) royal/dark blue (1) solution (1)		[4]
	(e) (i)	white (1) precipitate (1)		[2]
	(ii)	dissolves (1) white (1) precipitate (1)		[3]
	(5)	dissolves (1)		[3]
	(f)	Solid D is a sulphate (1) hydrated (1)		[2]
	(g)	copper (1)/Cu ²⁺ (2)		[2]

[Total: 60]

Page 2	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – June 2003	0620	6

(a) (i) (ii)	Smooth line graph result at 5 minutes (1) not on curve (1)/gas escapes, gone down	[1] [2]
(b)	0.8 g	[1]
(c)	reference to leak/loss of gas (1) ∴ volumes lower (1)	[2]
	Known mass of beach sand (1) add excess (1) dilute hydrochloric acid (1) filter (1) wash (1) dry (1) residue and weigh sand (1) working out result (1) max 6 of 8	[6]
	(ii)	 (ii) result at 5 minutes (1) not on curve (1)/gas escapes, gone down (b) 0.8 g (c) reference to leak/loss of gas (1) ∴ volumes lower (1) Known mass of beach sand (1) add excess (1) dilute hydrochloric acid (1) filter (1) wash (1) dry (1) residue and weigh sand (1) working out result (1)