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## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

## MARK SCHEME for the November 2005 question paper

## 0620 CHEMISTRY

0620/06

Paper 6 (Alternative to Practical), maximum mark 60

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*.

The minimum marks in these components needed for various grades were previously published with these mark schemes, but are now instead included in the Report on the Examination for this session.

• 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
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1	(a)	boxes	filled in correctly to show:	
		meas	uring cylinder (1)	
		spatu	la (1)	
		beake	er (1)	[3]
	(b)	blue		[1]
	(c)	heat (	1)	
		to cry	stallising point (1)	[2]
2	(a)	electr	odes correctly labelled	[1]
	(b)	bubble	es at positive/negative electrode (1)	
		bulb li	ghts up (1)	[2]
	(c)	lighte	d splint (1)	
		pops	(1)	[2]
3	(a)	pestle	e (1) and mortar (1)	[2]
	(b)	chlorophyll more soluble in ethanol or similar		[1]
	(c)	filtration		[1]
	(d)	chron	natography (1), paper (1), add pigments (1), use of solvent (1)	[4]
4		Table	of results:	
			nes of gas correctly completed (21, 24, 39, 47 and 56) reach incorrect	[3]
	(a)	points correctly plotted in graph (3), - 1 for each incorrect		
(b)		straight line (1)		
		experiment 2 (1)		
		not on line (1)		
	(c)	(i)	experiment 5 (1)	
		(ii)	strongest/more concentrated acid (1)	
			more collisions (1)	[3]
	(d)	marbl	e chip visible (1)	
		acid u	sed up (1)	[2]

	Page 2		Mark Scheme IGCSE – NOVEMBER 2005	Syllabus 0620	Paper 6
	(e)	(i)	e.g. size of chips different/starting the timer		[1]
		(ii)	measure mass of chips/time individual experimen	ts	[1]
5	(b)	(i)	white (1)		
			precipitate (1)		
			dissolves (1)		[3]
		(ii)	white (1)		
			precipitate (1)		
			insoluble (1)		[3]
	(c)	acid	gas/named/hydrated salt		[1]
	(d)	not a	sulphate (1)		
		not a	halide (1)		[2]
	(e)	amm	onia	[1]	
	(f)	nitrat	re (1)		
		hydra	ated/water (1)		[2]
6	(a)	2 arr	ows in correct positions (1) each		[2]
	(b)	brom	nine (water) (1)		
		goes	colourless (1)	[2]	
	(c)	suck	-back problem		[2]
7	(a)	soil s	soil sample + water (1)		
		stir/h	eat (1)		
		filter	(1)		
		add l	Universal Indicator (1)		
		chart	: (1)		[5]
	(b)	more	e samples (1)		
		differ	rent parts of field (1)		[2]
					Total 60