UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2006 question paper

0620 CHEMISTRY

0620/06

Paper 6, maximum raw mark 60

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These mark schemes are published as an aid to teachers and students, to indicate the requirements of the examination. They show the basis on which Examiners were initially instructed to award marks. They do 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.

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	Page 1		ark Scheme	Syllabu 7	
		IGCSE -	– May/June 2006	0620	
1	(a) Boxes cor	mpleted	tubes (1) hydrochloric acid (1) electrodes (1)	Syllabu 0620	lidge
	(b) Electrolys	sis (1)			Com
	(c) Litmus pa	aper (1), bleaches/white ((1)		[2]
2	(a) To extrac	ot the colour owtte (1)			[1]
	(b) To remov	ve solid/insoluble impuriti	ies (1)		[1]
	(c) Heating/e	evaporation (1)			[1]
	(d) Diagram s	showing spots (1)	3 at different levels (1)		[2]
3	Maximum tem	nperatures reached			
	22 34 46 48	44 40 (2)			[2]
	-1 for any inco	orrect			
	(a) So that th	ie solutions are at same/	/lab/room temperature (1)		[1]
	(b) 22°C (1)				[1]
	(c) Good insu	ulator owtte (1)			[1]
	(d) Graph all	points correct (2)	-1 for any incorrect		
	2 straight	lines (1)			[3]
	(e) (i) 50°C				[1]
		ation where lines interse	ct (1)		[1]
		m ³ or from graph (1)			[1]
	(f) Exotherm	ıic (1)			[1]
4	Volumes from	n cylinder diagrams			
	Experiment 2				
	0 16 31 39		all correct (2)		[2]
	-1 for any inco	prrect			
	Experiment 3				
	0 9 17 21		all correct (2)		[2]

Page 2	Mark Scheme IGCSE – May/June 2006	Syllabu r 0620		
I	1003E - May/Julie 2000	0020 20		
Experiment 4		"ABTIC		
0 6 11 14	all correct (2)	Syllabu 0620 ect		
(a) Graph. Al	Il points plotted correctly (3)1 for each incorre	ect		
smooth cu	urves (1), labels (1)	[5]		
(b) (i) Exper	riment 1 (1)	[1]		
(ii) Most	concentrated solution (1), more collisions (1)	[2]		
(c) (i) Two e	errors (2)			
e.g. a	mount of catalyst/timing/volume of solution	[2]		
(ii) Two in	mprovements (2)			
e.g. m	neasure mass of catalyst/use burette or pipette/c	data logging [2]		
	same mass of catalyst before and after (1)/repea of gas collected	at experiment and compare [2]		
(b) (i) white	(1), precipitate (1), dissolves/soluble (1)	[3]		
(ii) white	(1), precipitate (1), dissolves/soluble (1)	[3]		
(d) reference	to water (1) e.g. hydrated salt	[1]		
(e) sulphate ((e) sulphate (1), not a chloride (1)			
(f) carbon dic	oxide (1), from a carbonate (1)	[2]		
Add indicator/r Add named ac	ume of oven cleaner (1) named indicator (1) cid (1), from a burette/pipette (1) ange/end point (1), measure/record volume of a	acid (1)		
	ther cleaner (1), compare (1)			

Max 6

Total for paper = 60