UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the May/June 2007 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 2007	0620	06
(a)	B beak	nometer (1) ker (1) d (1)		[3]
(b)	to cool / c	condense the vapour (1)		[1]
(c)	measure	the boiling point (1)		[1]
				[Total: 5]
! (a)	Correct ir	ndication of electrodes (1)		[1]
(b)	bubbles / bulb light	fizz / effervescence (1) / green gas / level of liquid t s up (1) max 2	falls (1)	[2]
(c)	(i) chlo	rine / C <i>l</i> ₂ (1)		[1]
	(ii) litmu	is paper / indicator (1) bleaches (1)		[2]
				[Total: 6]
6 (a)	does not	dissolve in solvent / interfere with results owtte (1)		[1]
(b)	1 and 3 (1)		[1]
(c)		(1) s present (1)		[2
(d)	to show p	position of the acids / spots (1)		[1]
				[Total: 5]

	Page 3	Mark Scheme	Syllabus	Paper
		IGCSE – May/June 2007	0620	06
4	Table of result	S		
	Experiment 1 final reading b	ox correctly completed, 39.2 (1)		
		ox correctly completed (1) mpleted correctly, 39.2 (1) and 20.6 (1)		[4]
	(a) as an ind	[1]		
	(b) (i) Expe	eriment 1 (1)		[1]
	(ii) more	e in Experiment 1 / greater volume (1)		[1]
	(iii) solut	tion A more concentrated / stronger than B (1) approx ×	2 (1)	[2]
	(c) 10.3 (1)	cm ³ / ml / cc (1)		[2]
		.g. repeat titrations (1) on e.g. average reading more accurate (1)		[2] [Total: 13]
5	(c) bubbles /	fizz (1) limewater (1) milky (1)		[3]
	(d) yellow (1)) precipitate (1)		[2]
	(f) carbon di	oxide (1)		[1]
	(g) ammonia	(1)		[1]
	(h) iron (1)	(II) (1) ammonium (1) sulphate (1)		[4]
				[Total: 11]

Pa	age 4	Mark Scheme		Syllabus	Paper
		IGCSE –	May/June 2007	0620	06
tabl	le correctly com				
	catalyst W	catalyst X	7		
	Ő	Ő			
	16	29	_		
	32	34			
_	36	36	_		
_	37	37	_		
-	37	37 -1 each incorrect	_		
	all correct (3)	- Teach incorrect			[3
					[0
(b)	all points corre	ble scale for y-axis ectly plotted (3) s (1) labelled (1)	(1)		[6
(c)		/ more gas given of	f at 20/40 s (1)		[2
(d)	same volume	of hydrogen peroxid	e used in both experiments (1)		[1
(e)		on grid with steeper same level (1)	slope than for catalyst X at 25°C	(1)	[2 [Total: 14
(a)		ture of cold water or	cement (1)		
		add cement (1) using thermometer / in beaker etc. (1)			
	measure temp				
	temperature ris				[4
	NB				
	no water = 0 no cement = 0				
	use of heat = 0				
	wrong chemica				
	would not worl	k = 0			
(b)	sodium hydrox	(ide (1) white prec	sinitate (1)		[2
()	or flame test (٢
	,				[T_44]- 0
					[Total: 6]