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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Syllabus

		.90 _	IGCSE – May/June 2008	0620					
1	(a)	boxes co	Cally						
		measurii	0620 ODAC ONTO						
		spatula (1)							
		tripod (1)	[3]					
	(b)	more tha	an enough to react owtte (1)	[1]					
	(c)	diagram	1) [2]						
				[Total: 6]					
2	(a)	(i) elec	trodes labelled correctly (1)	[1]					
		(ii) carb	oon/graphite or platinum (1)	[1]					
	(b) bulb lights/brownish/red/orange gas/liquid/bubbles/silver beads formed/melts in tube [m								
	(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	nderneath flask (1)	[1]					
	(c)	mistakes		[0]					
			collected by upward delivery (1)	[2] [Total: 5]					
				[Total: o]					
4	Tab	Table of results							
		periment ial and fina	1 al volume boxes correctly completed (1), 0.0 and 20	3.0					
	-	periment ial and fina	2 al volume boxes correctly completed (2), 16.0 and 2	29.0					
	diffe	erences c	ompleted correctly (1), 26.0 and 13.0	[4]					

Mark Scheme

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	Pa	ge 3	3		Mark Scheme Syllabus		Syllabus	A.D. or	
	5 - 5				IGCSE – May		0620	apa,	
	(e)	(i)	Ехре	eriment 1 (1)			Carry	
		(ii)	more	e in Experi	ment 1/greater v	rolume (1) ×2 (1)		A. PapaCambridge	
		(iii)	solut	tion A more	e concentrated/s	stronger than B (1) X2 (1)	[2]	
	(f)	twic	ce the	volume va	alue for Experim	ent 2/26 (1) cm ³ (1	1)	[2]	
	(g)	cha	inge e	e.g. repeat	titrations (1) or ι	use a burette/pipette			
		exp	lanati	on e.g. av	erage reading m	ore accurate (1) instead	d of m/cylinder	[2]	
	(h)	(i)	iron(II) ions pre	esent (1)			[1]	
		(ii)	iron(III) ions (1)			[1]	
								[Total: 15]	
E	Tos	to o	n aalia	4 T					
5			n solic						
	(b)	(ii)	white	∋ (1)	precipitate (1)	insoluble in excess (1	1)	[2]	
		(iii)		light (1) eaction (1)	precipitate (1) only	max 4 for (ii) and (iii)		[2]	
				()	,				
	(e)	wea	ak (1)		acids (1)			[2]	
	/£ \	000		rocont(1)	othonoio opid/s	urgania aalt (1)		[0]	
	(f)	cop	pper p	resent(1)	ethanoic acid/c	organic sait (1)		[2]	
								[Total: 8]	
6	(a)	Tab	ole of	results					
		volu	umes	correctly c	ompleted (4), -1	for each incorrect			
		0,	18,	34, 42,	59, 63, 63	3		[4]	
	(a)	noi	nts pla	otted corre	ctly (3), -1 for ea	ach incorrect			
	()			ne curve ([4]	
	(c)	rea	ction t	finished/all	acid used up (1)		[1]	
	(-)	.00	01.011		aoia aooa ap (.	,		[.]	
	(d)	poi	nt at 3	3 minutes/a	at 42 cm ³ (1)	does not fit curve owtte	(1)	[2]	
	(e)	eko	itch lin	ne helow n	otted curve (1)	levels off around 30 cm	o ³ (1)	[2]	
	(6)	3110	COLL III	io bolow p	ollou ourve (1)	10 vois on around 50 on	' ('/		
								[Total: 13]	

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Page 4	Mark Scheme	Syllabus
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7 (a) test red litmus (1) or other named indicatorresult blue (1)

(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]

[1]

(d) catches fire owtte (1)

[Total: 7]

[Total for paper: 60]