UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2009 question paper for the guidance of teachers

0620 CHEMISTRY

0620/05

Paper 5 (Practical Test), maximum raw mark 40

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, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

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Pag	ge 2	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – May/June 2009	0620	05
Tab	le of resu	ults		
		rature boxes completed correctly i.e. increasing		
	•	rature boxes correctly completed i.e. lower or the operature boxes correctly completed (1)	e same (1)	
	nes completed correctly i.e. descending (1) in seconds (1)			
(a)	5 points correctly plotted (2), -1 for any incorrect			
(-,		line graph is a curve (1)		
(b)	pale yell	low/cream/white (1) not cloudy/milky		
(c)	(i) expe	eriment 5 (1)		
	(ii) more energy owtte (1) particles move faster (1) more kinetic energy = 2 more collisions (1)			
	11101	e comsions (1)		
(d)	idea of a	a fair test/to compare effect of changing the temp	perature (1)	
` ,		, , , , , , , , , , , , , , , , , , , ,	()	
(e)		ue from graph (1) unit (1)		
	extr	apolation shown (1)		
	(ii) curv	ve sketched on grid below original curve (1)		
(f)	change e.g. use of data logger/colourimeter (1) or use of lagging/insulation /repeat experiments/use a burette or pipette			
	explanation e.g. timing of reaction more accurate (1) to reduce heat losses /average readings for times/more accurate volumes			
	J	- -		
				[Total: 2

2 tests on solid S

(c) blue (1)

(a) black (solid) see (d)

(b) effervescence (1) splint ignites/catches fire or glows brighter (1)

[2]

[1]

(i) blue (1) precipitate (1)

[2]

on heating turns brown/black/darkens (1)

[1]

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(ii) blu	(ii) blue (1) precipitate (1)		
wit	h excess dissolves/clears (1) deep/royal blue (1)		[2]
(iii) wh	ite (1) precipitate (1)		[2]
(d) black/d	ark brown solid (1) MUST HAVE (a) correct as well		[1]
(e) efferve	scence (1) splint relights (1) ignore pops		[2]
(f) (i) V i	s more reactive/faster or converse (1)		[1]
(ii) oxy	/gen (1)		[1]
(g) copper	(1) oxide (1) reacts with sulfuric acid to form copper	sulfate (1) max 2	[2]
(h) catalys	t/transition metal/manganese oxide (1)		[1]

Syllabus

Mark Scheme: Teachers' version

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Paper