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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2011 question paper for the guidance of teachers

0620 CHEMISTRY

0620/53

Paper 5 (Practical), 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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[1]

Syllabus

	<u> </u>	IGCSE – October/November 2011	0620	
(c)	final read	results adings completed correctly (1) dings completed correctly (1) all readings to 1 d.p. (les completed correctly (1) able to supervisors (2)	1)	hbridge.
(d)	pink (1)	to colourless (1) not: clear		[2]
(e)	neutralis	ation / exothermic (1)		[1]
(f)	(i) C/3	smallest B/2 largest (1) one correct = 1		[1]
	(ii) orde	er is C/3 A/1 B/2 (2) one correct = 1		[2]
(g)	experime	ent 2 is twice the volume of experiment 1 or converse	e (1)	[1]
(h)	twice val	ue from table result for experiment 3 (1) cm ³ (1)		[2]
(i)	use a pip	pette / burette		[1]
(j)	reason	none / owtte (1) no change in concentration / temperature has no eff affects speed (1)	fect on quantities or moles	/ only [2]
(k)	using sa	ect method that would work – precise details not nee me method with different acids = 0 s (1) method (1) result (1)	ded	[3]
	mea	odium hydroxide add named acid (1) sure temperature change (1) est change = strongest / more concentrated solution	(1)	
	filter	odium hydroxide add named (excess)metal salt solut precipitate (1) est mass = strongest / more concentrated solution (1	,	
	J		,	ıl: 21]
(a)	(i) yello	ow / brown / orange (1)		[1]

Mark Scheme: Teachers' version

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1

2

(ii) white / colourless (1)

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Page 3	Mark Scheme: Teachers' version	Syllabus
•	IGCSE – October/November 2011	0620
(b) (i) no c	hange / no reaction owtte (1)	Syllabus 1. Add
(ii) whit	e (1) precipitate (1)	Tag
(iii) brov	vn (1) precipitate (1)	[2]
(iv) brov	vn precipitate (1)	[1]
· , · ,	d white (1) condensation at top of tube (1) ewater / blue litmus (1) milky / red (1) max 3	[3]
fizz	/ bubbles / effervescence (1)	[1]
(ii) fizz	/ bubbles / effervescence / brown precipitate (1)	[1]
(d) iron (1) ((III) (1) chloride (1)	[3]
(e) carbon o	dioxide (1)	[1]
` '	te / hydrogen carbonate (1) sition metal / named metal e.g. sodium (1)	[2]