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.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

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	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – October/November 2011	0620	53
1	(c)	table of initial re final rea different compara	[6]		
	(d)	pink (1)	to colourless (1) not: clear		[2]
	(e)	neutralis	sation / 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)	experim	ent 2 is twice the volume of experiment 1 or convers	se (1)	[1]
	(h)	twice va	lue from table result for experiment 3 (1) cm ³ (1)		[2]
	(i)	use a pi	pette / burette		[1]
	(j)	effect reason	none / owtte (1) no change in concentration / temperature has no er affects speed (1)	ffect on quantities	or moles / only [2]
	(k)	any corr using sa reagents	rect method that would work – precise details not nea ne method with different acids = 0 s (1) method (1) result (1)	eded	[3]
		e.g. to s mea larg	odium hydroxide add named acid (1) asure temperature change (1) est change = strongest / more concentrated solution	(1)	
		e.g. to s filte larg	odium hydroxide add named (excess)metal salt solu r precipitate (1) est mass = strongest / more concentrated solution (tion (1) 1)	
					[Total: 21]
2	(a)	(i) yell	ow / brown / orange (1)		[1]

(ii) white / colourless (1) [1]

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2011	0620	53
(b) (i) no d	change / no reaction owtte (1)		[1]
(ii) whi	te (1) precipitate (1)		[2]
(iii) bro	wn (1) precipitate (1)		[2]
(iv) bro	wn precipitate (1)		[1]
(c) (i) soli	d white (1) condensation at top of tube (1)		
lime	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	dioxide (1)		[1]
(f) carbona			
non trar	nsition metal / named metal e.g. sodium (1)		[2]
			[Total: 19]