MARK SCHEME for the October/November 2011 question paper

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for the guidance of teachers

0620 CHEMISTRY

0620/52

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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1	 (a) table of results for <i>experiment 1</i> all boxes completed correctly (1) readings to 1 d.p. (1) 				
		nparable to supervisors (1) \pm 3 cm ³	[3]		
	í all b	e of results for <i>experiment 2</i> boxes completed correctly (1) dings to 1 d.p. (1)			
		shings to Fulp. (1) $\pm 3 \text{ cm}^3$	[3]		
	(c) red	/ brown (1)	[1]		
	(d) blue	e / black (1) not: purple to colourless (1) not: clear	[2]		
	(e) as a	an indicator / to test for iodine / owtte (1)	[1]		
	(f) (i)	experiment 2 (1)	[1]		
	(ii)	experiment 2 is 2× volume of experiment 1 (1) allow: almost doubl	e [1]		
	(iii)	solution F more concentrated / stronger (1) or converse twice / double (1)	[2]		
		value from table result for experiment 1 (1) volume of potassium iodate/iodine (1)	[2]		
	(h) (i)	two sources of error e.g. using a measuring cylinder to measure iodate/acid experiment only carried out once going past end point / owtte			
		not: references to human error / temperature / rinsing	[2]		
	(ii)	two meaningful improvements related to above e.g. use a pipette / burette	[0]		
		repeat experiment	[2]		
			[Total: 20]		
2	(a) (i)	liquid H blue and no smell (1) any reference to smell = 0 pH < 7 (1)	[2]		
	(ii)	liquid J colourless (1) not: clear sweet smell / petrol / acetone / owtte (1) not: pungent / strong two layers / immiscible (1) with indicator paper pH 7 or green (1)	[4]		

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2011	0620	52
(b) white pro	ecipitate (1)		[1
	(1) precipitate (1) eating black (1)		[3
• •	precipitate (1) dissolves / solution (1) p / royal blue (1)		[3
	nguished / goes out / no reaction (1) no change / nothing happens		[1
orar	e / catches fire (1) orange / yellow (1) smokey / s nge / yellow or smokey / sooty flame = (2) rence to glowing splint = 0	ooty (1) max 2	[2
	1) sulfate (1)) water present / aqueous (1) max 2		[2
	(1) hydrocarbon / non polar (1) ammable / fuel / alkane not: alcohol		[2
			[Total: 20