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

0620/52

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.

Cambridge is publishing the mark schemes for the October/November 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

	ı u	ge z		IGCSE – October/November 2011	0620	52
1	(a)	all b	e of repoxes	[3]		
	(b)	table of results for <i>experiment 2</i> all boxes completed correctly (1) readings to 1 d.p. (1) comparable to supervisors (1) ± 3 cm ³				
	(c)	red	/ brow	vn (1)		[1]
	(d)	d) blue / black (1) not: purple to colourless (1) not: clear				[2]
	(e)	as an indicator / to test for iodine / owtte (1)				[1]
	(f)	(i)	expe	riment 2 (1)		[1]
		(ii)	expe	riment 2 is 2× volume of experiment 1 (1) allow: al	most double	[1]
		(iii)		ion F more concentrated / stronger (1) or converse e / double (1)		[2]
(g)				e from table result for experiment 1 (1) ne of potassium iodate/iodine (1)		[2]
	(h)	e.g. expe		sources of error using a measuring cylinder to measure iodate/acid riment only carried out once g past end point / owtte references to human error / temperature / rinsing		[2]
		(ii)	two meaningful improvements related to above e.g. use a pipette / burette repeat experiment			[2]
						[Total: 20]
2	(a)	(i)		H H blue and no smell (1) any reference to smell = 0 7 (1))	[2]
		(ii)	swee	I J colourless (1) not : clear et smell / petrol / acetone / owtte (1) not : pungent / ayers / immiscible (1) with indicator paper pH 7 or g	_	[4]

Mark Scheme: Teachers' version

Syllabus

Paper

Page 2

Page 3		Mark Scheme: Teachers' version	Syllabus	Paper			
		IGCSE – October/November 2011	0620	52			
(b) wh	[1]						
(c) (i)		e (1) precipitate (1) neating black (1)		[3]			
(ii)		e precipitate (1) dissolves / solution (1) p / royal blue (1)		[3]			
(d) (i)		nguished / goes out / no reaction (1) no change / nothing happens		[1]			
(ii)	oran	ne / catches fire (1) orange / yellow (1) smokey / soo nge / yellow or smokey / sooty flame = (2) rence to glowing splint = 0	oty (1) max 2	[2]			
	copper (1) sulfate (1) acidic (1) water present / aqueous (1) max 2						
	organic (1) hydrocarbon / non polar (1) allow: flammable / fuel / alkane not: alcohol						

[Total: 20]