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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

0620/52

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.



	1 age 2		IGCSE – October/November 2011	0620	52
<u> </u>			IGGGL - October/November 2011	0020	JŁ
1	(a)	tabl all b			
			nparable to supervisors (1) ± 3 cm <sup>3</sup>		[3]
	(b)	tabl all b	[2]		
		CON	nparable to supervisors (1) ± 3 cm <sup>3</sup>		[3]
	(c)	red	/ brown (1)		[1]
	(d)	blue	e / black (1) <b>not</b> : purple to colourless (1) <b>not</b> : 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: a	almost double	[1]
		(iii)	solution F more concentrated / stronger (1) or converse twice / double (1)	e	[2]
	(g)		f value from table result for experiment 1 (1) f 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	I	
			not: references to human error / temperature / rinsing		[2]
		(ii)	two meaningful improvements related to above e.g. use a pipette / burette		ro1
			repeat experiment		[2]
					[Total: 20]
2	(a)	(i)	liquid H blue and no smell (1) any reference to smell = pH < 7 (1)	0	[2]
		(ii)	liquid J colourless (1) <b>not</b> : clear sweet smell / petrol / acetone / owtte (1) <b>not</b> : pungent two layers / immiscible (1) with indicator paper pH 7 or		[4]

Mark Scheme: Teachers' version

Syllabus

Paper

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Page 3		Mark Scheme: Teachers' version	Syllabus	Paper			
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<b>(b)</b> wh	[1]						
(c) (i)		e (1) precipitate (1) neating black (1)		[3]			
(ii)		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]			
	(e) 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]