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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.

	Page 2		Mark Scheme: Teachers' version	Syllabus	
			IGCSE – October/November 2011	0620	
1	(a) ta al re co	Syllabus 70 TO			
	al re	I boxes adings	results for experiment 2 s completed correctly (1) s to 1 d.p. (1) able to supervisors (1) ± 3 cm ³	[3]	
	(c) re	ed / brov	wn (1)	[1]	
	(d) bl	ue / bla	ack (1) not : purple to colourless (1) not : clear	[2]	
	(e) as	s an inc	dicator / to test for iodine / owtte (1)	[1]	
	(f) (i)) expe	eriment 2 (1)	[1]	
	(ii)) expe	eriment 2 is 2× volume of experiment 1 (1) allow: almost	ost double [1]	
	(iii)	•	tion F more concentrated / stronger (1) or converse e / double (1)	[2]	
			e from table result for experiment 1 (1) me of potassium iodate/iodine (1)	[2]	
	(h) (i)	e.g. expe goin	sources of error using a measuring cylinder to measure iodate/acid eriment only carried out once ig past end point / owtte references to human error / temperature / rinsing	[2]	
	(ii)	e.g.	meaningful improvements related to above use a pipette / burette	rol	
		repe	eat experiment	[2] [Total: 20]	
				[. 0 (a), 20]	
2	(a) (i)		d H blue and no smell (1) any reference to smell = 0 < 7 (1)	[2]	
	(ii)	swe	d J colourless (1) not : clear et smell / petrol / acetone / owtte (1) not : pungent / str layers / immiscible (1) with indicator paper pH 7 or gre		

Page 3	Mark Scheme: Teachers' version	Syllabus	S V
	IGCSE – October/November 2011	0620	TO TO
(b) white	precipitate (1)	`	ana Cambridge
. , . ,	olue (1) precipitate (1) on heating black (1)		[3]
` '	olue precipitate (1) dissolves / solution (1) leep / royal blue (1)		[3]
. , . ,	extinguished / goes out / no reaction (1) not: no change / nothing happens		[1]
Ò	ame / catches fire (1) orange / yellow (1) smokey / sooty orange / yellow or smokey / sooty flame = (2) eference to glowing splint = 0	y (1) max 2	[2]
	er (1) sulfate (1) c (1) water present / aqueous (1) max 2		[2]

[2]

[Total: 20]

(f) organic (1) hydrocarbon / non polar (1) allow: flammable / fuel / alkane not: alcohol