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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

0620/53

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.

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		ge 2	Mark Scheme: Teachers' version	Syllabus \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
			IGCSE – October/November 2011	0620	
1	(c)	final read difference	results adings completed correctly (1) dings completed correctly (1) all readings to 1 d.p. ( ses completed correctly (1) able to supervisors (2)	Syllabus 0620  1)	No.
	(d)	pink (1)	to colourless (1) <b>not</b> : clear	[2	2]
	(e)	neutralis	ation / 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)	experime	ent 2 is twice the volume of experiment 1 or converse	e (1) [1	]
	(h)	twice val	lue from table result for experiment 3 (1) cm <sup>3</sup> (1)	[2	?]
	(i)	use a pip	pette / burette	[1	]
	(j)	reason	none / owtte (1) no change in concentration / temperature has no effaffects speed (1)	fect on quantities or moles / onl [2	•
	(k)	using sa	ect method that would work – precise details not nee me method with different acids = 0 s (1) method (1) result (1)	eded [3	3]
		mea	odium hydroxide add named acid (1) sure temperature change (1) est change = strongest / more concentrated solution	(1)	
		filter	odium hydroxide add named (excess)metal salt solut precipitate (1) est mass = strongest / more concentrated solution (1	. ,	
				[Total: 21	]

[1]

[1]

(a) (i) yellow / brown / orange (1)

(ii) white / colourless (1)

Page 3	Mark Scheme: Teachers' version	Syllabus			
•	IGCSE – October/November 2011	0620			
<b>(b) (i)</b> no	change / no reaction owtte (1)	Syllabus 0620 CAMPHA			
(ii) w	nite (1) precipitate (1)	To the state of th			
(iii) br	own (1) precipitate (1)	[2]			
( <b>iv</b> ) br	own precipitate (1)	[1]			
	lid white (1) condensation at top of tube (1) newater / blue litmus (1) milky / red (1) max 3	[3]			
fiz	z / bubbles / effervescence (1)	[1]			
(ii) fiz	z / bubbles / effervescence / brown precipitate (1)	[1]			
(d) iron (1) (III) (1) chloride (1)					
(e) carbor	dioxide (1)	[1]			
` '	nate / hydrogen carbonate (1) nnsition metal / named metal e.g. sodium (1)	[2]			

[Total: 19]