UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

WANN, PapaCambridge.com 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 Syllab IGCSE – October/November 2011 062	ous and r
all boxes readings	esults for <i>experiment 1</i> completed correctly (1) to 1 d.p. (1) ble to supervisors (1) \pm 3 cm ³	bus 0 rapacannun 0 rapacannun 0 rapacannun 0 rapacannun 10
all boxes readings	esults for <i>experiment 2</i> completed correctly (1) to 1 d.p. (1) ble to supervisors (1) ± 3 cm ³	[3]
c) red / brov	wn (1)	[1]
d) blue / bla	ack (1) not: purple to colourless (1) not: clear	[2]
e) as an inc	licator / to test for iodine / owtte (1)	[1]
⁻) (i) expe	eriment 2 (1)	[1]
(ii) expe	eriment 2 is 2× volume of experiment 1 (1) allow: almost doub	ble [1]
	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]
e.g. expe goin	sources of error using a measuring cylinder to measure iodate/acid eriment only carried out once g past end point / owtte references to human error / temperature / rinsing	[2]
	meaningful improvements related to above use a pipette / burette	
	at experiment	[2]
		[Total: 20]
	d H blue and no smell (1) any reference to smell = 0 < 7 (1)	[2]
• •	d J colourless (1) not: clear et smell / petrol / acetone / owtte (1) not: pungent / strong ayers / immiscible (1) with indicator paper pH 7 or green (1)	[4]

Page 3	Mark Scheme: Teachers' version	Syllabus
	IGCSE – October/November 2011	0620 73
b) white pre	ecipitate (1)	Syllabus 0620
	(1) precipitate (1) eating black (1)	I
	precipitate (1) dissolves / solution (1) o / royal blue (1)	[
	nguished / goes out / no reaction (1) no change / nothing happens	[
oran	e / catches fire (1) orange / yellow (1) smokey / so ge / yellow or smokey / sooty flame = (2) rence to glowing splint = 0	ooty (1) max 2 [
	1) sulfate (1)) water present / aqueous (1) max 2	[
	1) hydrocarbon / non polar (1) ammable / fuel / alkane not: alcohol	[.
		[Total: 2