www.xtrapapers.com

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2010 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.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Syllabus 0620

	10001 001000	80
(a)	Table of results for Experiment 1 volume of acid box completed correctly (1) comparable to supervisors (1)	*Cambridge
(b)	Table of results for Experiment 2 volume of acid box completed correctly (1) comparable to supervisors (1) -1 if not 1 decimal place	[4]
(c)	pink (1) to colourless (1) not clear	[2]
(d)	(i) hydroxide	[1]
	(ii) neutralisation	[1]
(e)	(i) experiment 2	[1]
	(ii) experiment 2 2× volume experiment 1	[1]
	(iii) alkaline solution G more concentrated/stronger (1) or converse 2× as concentrated (2)	[2]
(f)	half value from table result for experiment 2 (1) cm ³ (1) half volume of G used (1) max 2	[2]
(g)	(i) two sources of error e.g. using a measuring cylinder to measure alkalis/going past end point owtte	[2]
	(ii) two meaningful improvements related to above e.g. use a pipette/burette/repeat experiment or use different indicator	[2]
		[Total: 18]
(a)	white/colourless crystals	[1]
(b)	melts/turns into a liquid owtte (1) crackles (1)	
	pH paper turns blue/ pH > 7 (1) smell (1) max 2	[2]
(c)	(i) white (1) precipitate (1)	[2]
	(ii) no change/no reaction owtte	[1]
	(iii) pungent/smelly (gas) (1) indicator paper turns blue or pH > 7 (1)	[2]

Mark Scheme: Teachers' version IGCSE – October/November 2010

Page 2

1

2

www.xtrapapers.com

Page 3	Mark Scheme: Teachers' version	Syllabus	.0	1
	IGCSE – October/November 2010	0620	100	

(d) solid turns white/colour fades (1) condensation at top of tube (1) acidic gas (1) max 2

(i) iron (1) (II) (1) sulfate (1)

(e)	(i)	green (1) precipitate (1)	[2]
	(ii)	white precipitate	[1]
	(iii)	(manganate) turns colourless/yellow/orange/brown	[1]
(f)	f) steam (1) heat given off (1) solid turns green/brown/yellow/orange (1) max 2		[2]
(g)	amı	monia	[1]
(h)	amı	monium (1) sulfate (1)	[2]

[Total: 22]

[3]