CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the March 2015 series

0620 CHEMISTRY

0620/52

Paper 5 (Practical), maximum raw mark 40

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P	age 2	Mark Scheme Cambridge IGCSE – March 2015	Sylvan per 062
1	(d)	Table of results	Camb
		total volume of water boxes completed correctly (1),	Original Property of the Prope
		10, 12, 14, 18	COM
		temperature boxes completed (1)	

(d) Table of results

values decreasing (1)

comparable to supervisor's results (2) ±10 °C

[5]

(e) appropriate scale for y axis (1)

note: must use at least 4 large squares vertically to plot points

all points correctly plotted (3),

all 4 correct (3)

3 correct (2)

2 correct (1)

1 or fewer correct (0)

note: origin should not be included

smooth line graph (1)

[5]

(f) value from graph for $20 \, \text{cm}^3$ water (1) \pm half a small square

shown clearly by extrapolation(1)

[2]

(g) clear/colourless liquid forms/no solid/crystals/salt visible owtte (1)

[1]

(h) salt would not all dissolve (1)

use of figures (1)

e.g. only 5.7 g would dissolve in 10 cm³ water at 100 °C

[2]

(i) sketch graph above line (1)

label (1)

[2]

		10 2
Page	Mark Scheme Cambridge IGCSE – March 2015	Syr per
	Cambridge IGCSE – March 2015	1002
(j)	any one improvement from: (1)	and.
	do not remove thermometer from solution use IT method/second person to note formation of crystals repeat do separate experiments use smaller volumes of water loss of water through boiling/evaporation	Sylvarida per 062 Dec
	linked explanation (1)	
	loss of solid on thermometer observing formation of first crystals may vary average more results to plot on graph method of avoiding evaporation	[2]
2 tes	ts on solution E	
(a)	yellow/green/colourless,	[1]
(b)	white (1) precipitate (1)	[2]
(c)	green precipitate (1) indicator paper turns blue (1)	[1]
	pungent smell (1)	[2]
	turns brown (1)	[1]
(d)	appearance pink to colourless/pale yellow (1)	[1]
	brown (1) precipitate (1)	[2]
	tests on solution F	
(e)	(i) yellow solution (1)	[1]
(-)	(ii) pH 1–3 (1)	
	(ii) Pi i i = 3 (i)	[1]
(f)	any three from: green (1) blue(1) lavender/purple/lilac (1)	
	effervescence (1)	[3]

Page 4	Mark Scheme	Sy. oer
	Cambridge IGCSE – March 2015	062
(g) i	iron (1) (II) (1)	Candaria
;	ammonium (1) sulfate(1)	Table
	any two from: transition metal (1)	COM

different valencies (1)

acidic solution(1)

[2]