MARK SCHEME for the October/November 2011 question paper

for the guidance of teachers

0620 CHEMISTRY

0620/61

Paper 6 (Alternative to Practical), maximum raw mark 60

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.



	Pa		2	Mark Scheme: Teachers' version		Paper
				IGCSE – October/November 2011	0620	61
1	(a)	(i) (ii)		s) syringe (1) w indication under copper (1)		[1] [1]
	(b)	spa	atula ((1)		[1]
	(c)	bla	ck (1)			[1]
	(d)			to room/initial temperature (1) volume of gas (1)		[2]
2	(a)			otted correctly (2) ine graph missing anomalous point (1)		[3]
	(b)	poi	nt at ?	15 cm ³ /pH 2.6/third point (1)		[1]
	(c)	(i)	12.6	5 (1)		[1]
		(ii)	pH 1	1 (1) extrapolation shown (1)		[2]
	(d)	(i)	7 (1))		[1]
		(ii)	25 (1)		[1]
	(e)	eva	aporat	xperiment (1) stop when 25 cm ³ added/when pH7 (1) te/heat (1) use same volumes (1) Ilising point/until saturated (1))	max [3]
3	(a)	chr	omate	ography (1)		[1]
	(b)	line	e draw	vn on diagram below origin (1)		[1]
	(c)	doe	es not	t interfere with results/owtte (1)		[1]
	(d)	A h		e ore/3 colours/ B has less/2 colours/ B contains F but / does not (1)	A doesn't/A contains (5/
			ilarity h con	, tain same colour/ E (1)		[2]

	Pa	ge 3		Mark Scheme: Teachers' version	Syllabus	Paper			
				IGCSE – October/November 2011	0620	61			
	(e)	C , I		[1]					
4	(a)	tem	Table of results for Experiment 1temperature boxes completed correctly (3)20, 21, 21, 32, 39, 42, 44, 45, 45						
	(b)	Tab tem 20,	[3]						
	(c)	all p bes labe		[5]					
	(d)	valu	ue fro	om graph ≈28°C ± half small square (1) unit (1) show	n clearly (1)	[3]			
	(e)	exo	therr	nic/redox/displacement (1)		[1]			
	(f)	(i)	tem	perature rises greater/faster in Experiment 1 (1) allo	w converse	[1]			
		(ii)	zinc	is more reactive (1)		[1]			
	(g)		•	ture changes would be same/faster/owtte (1) metal ture changes would be greater (1) lower volume (1)	in excess (1)/	[2]			
	(h)			uld react slower/temperature rises would be slower surface area (1)	(1)	[2]			
5	(a)	(i)	Р	colourless, no smell (1)		[1]			
		(ii)	Ρ	рН 1–3 (1)		[1]			
	(b)			es/effervescence/bubbles (1) plint pops (1) not hydrogen		[2]			
	(c)	white (1) precipitate (1)				[2]			
	(e)	weak acid (1) ethanoic acid (2)				[2]			
	(f)	wat		[1]					

Page 4	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2011	0620	61

6 measured volume of seawater (1) using measuring cylinder (1) into evaporating dish/beaker (1) pre-weighed (1) evaporate/heat (1) to dryness/constant mass (1) re-weigh (1) indication of calculation method (1)

max [6]

would not work = max 0

[Total: 60]