UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the May/June 2011 question paper

for the guidance of teachers

0620 CHEMISTRY

0620/62

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

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 May/June 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



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	Ра	ge 2	Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2011	0620	62
1	(a)	measu	ring cylinder (1)		[1]
	(b)	 (i) condenser (1) accept condensing tube evaporating dish/basin/bowl (1) accept crystallising dish/basin/bowl tripod (1) 			[3]
		(ii) A/d	distillation (1)		[1]
	(c)	heat/ev	reference to filtering vaporate/use apparatus B (1) not 'heat' if the method wou tallising point/until saturated (1)	ıld not work	[2]
2	(a)	Table of	of results		
			t temperatures correct (3), –1 for each incorrect up to 3 , 34, 38, 42 ignore decimal place unless incorrect		
			ature rises (1) 12, 16, 20 ignore decimal place unless incorrect		[4]
	(b)	straight	plotted correctly (2), –1 for each incorrect up to 2 ignore of the time drawn with a ruler and missing anomalous point (1) ot go through origin, do not accept double lines	origin	[3]
	(c)	second	point/Experiment 2/0.6g zinc/6 °C (1) [1]		
3	(d)	24 (1) a	accept 23.5–24.5 °C (1) <u>extrapolation</u> shown on grid (1)		[3]
	(e)	pink/re	blour turns colourless/paler/owtte (1) not just colour chan d/brown/black solid (1) not Zn dissolves/Cu forms /bubbles (1) not gas given off	ges	max [2]
	(a)	lamp lig fizzing/	ghts (1) bubbles/green gas (1) ignore gas/H ₂ produced allow bl	each like smell	[2]
	(b)	carbon	/graphite/platinum (1)		[1]
	(c)	hydrog	en/H ₂ (1) not H		[1]
	(d)		upboard/ventilated area (1) ive clothing e.g. gloves/goggles/lab coat/tie back hair (1)		[2]

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	Page 3	Mark Scheme: Teachers' version IGCSE – May/June 2011	Syllabus 0620	Paper 62
4	Experiment 1		0620	02
-	(a) Table of volume b	 a) Table of results volume boxes completed correctly (3), -1 for each incorrect up to 3 0, 13, 22, 30, 36, 43, 49 ignore decimal place unless incorrect 		[3]
		ent 2 boxes completed correctly (3), –1 for each incorrect up to 3 10, 13, 17, 20, 23 ignore decimal place unless incorrec	ct	[3]
	two smo	 (c) all points correctly plotted (3), -1 for any incorrect up to 3 two smooth line graphs and must go through <u>origin</u> (2) lines clearly labelled (1) 		
	(d) (i) Exp	eriment 1/acid X (1)		[1]
	• •	X stronger/more concentrated or converse (1) allow 2× ore reference to catalyst/reactivity		[1]
	(e) reaction	finished (1) all acid used up (1) not Mg used up, ignore re	actants used up	[2]
		m graph (1) 69–72 s allow ecf from incorrect graph ndication shown (1)		[2]
	disadvar	g) advantage e.g. convenient/easy/quick to use/ <u>fairly</u> accurate (1) disadvantage e.g. reference to inaccurate measurement (1) do not allow 2 marks for references to accuracy		[2]
5	(b) (i) white	e (1) precipitate (1)		[2]
	(ii) pape	er turns blue (1) pH>7 (1) smelly/pungent gas (1)		max [2]
	(iii) no p	precipitate/reaction/change (1)		[1]
	(e) carbon d	lioxide/CO ₂ produced (1)		[1]
	(f) calcium	(1) carbonate (1)		[2]
6	temperature known mass/ ignite/burn th both fuels tes	same volume/same mass of water (1) taken at beginning and end or temperature change (1) /volume/change in mass of fuel (1) accept any measureme e fuel or heat the water (1) accept flame in diagram sted (1)	nt of mass of fue	Ι

comparison (1) accept any attempt at comparison