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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	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2011	0620	62
1	(a)	measuring cylinder (1)		[1]	
	(b)	 (i) condenser (1) accept condensing tube evaporating dish/basin/bowl (1) accept crystallising dish/basin/bowl tripod (1) (ii) A (ii) (iii) (1) 			[3]
		(II) A/dis	stillation (1)		[1]
2	(c)	heat/eva	eference to filtering porate/use apparatus B (1) not 'heat' if the method would llising point/until saturated (1)	l not work	[2]
	(a)	Table of			
		highest t 26, 28,			
		•	ture rises (1) 12, 16, 20 ignore decimal place unless incorrect		[4]
	(b)	straight I	otted correctly (2), –1 for each incorrect up to 2 ignore or ine drawn with a ruler and missing anomalous point (1) go through origin, do not accept double lines	igin	[3]
	(c)	second p	ooint/Experiment 2/0.6 g zinc/6 °C (1) [1]		
3	(d)	24 (1) ac	ccept 23.5–24.5 °C (1) extrapolation shown on grid (1)		[3]
	(e)	pink/red/	our turns colourless/paler/owtte (1) not just colour change brown/black solid (1) not Zn dissolves/Cu forms ubbles (1) not gas given off	es	max [2]
	(a)	lamp ligh fizzing/bi	nts (1) ubbles/green gas (1) ignore gas/H ₂ produced allow blea	ach like smell	[2]
	(b)	carbon/g	raphite/platinum (1)		[1]
	(c)	hydroger	n/H ₂ (1) not H		[1]
	(d)		bboard/ventilated area (1) e 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						
	volume	 (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 					
	(b) Experim volume 0, 5,	:t	[3]				
	two smo	s correctly plotted (3), –1 for any incorrect up to 3 both line graphs and must go through <u>origin</u> (2) early labelled (1)		[6]			
	(d) (i) Exp	periment 1/acid X (1)		[1]			
		X stronger/more concentrated or converse (1) allow 2× ore reference to catalyst/reactivity		[1]			
	(e) reaction	(e) reaction finished (1) all acid used up (1) not Mg used up, ignore reactants used up					
	• •	om graph (1) 69–72 s allow ecf from incorrect graph ndication shown (1)		[2]			
	disadva	ge e.g. convenient/easy/quick to use/ <u>fairly</u> accurate (1) ntage e.g. reference to inaccurate measurement (1) Illow 2 marks for references to accuracy		[2]			
5	(b) (i) whi	te (1) precipitate (1)		[2]			
	(ii) pap	er turns blue (1) pH>7 (1) smelly/pungent gas (1)		max [2]			
	(iii) no j	precipitate/reaction/change (1)		[1]			
	(e) carbon (dioxide/CO ₂ produced (1)		[1]			
	(f) calcium	(1) carbonate (1)		[2]			
6	temperature known mass ignite/burn th both fuels te	 /same volume/same mass of water (1) taken at beginning and end or temperature change (1) s/volume/change in mass of fuel (1) accept any measureme the fuel or heat the water (1) accept flame in diagram sted (1) (1) accept any attempt at comparison 	nt of mass of fue	l			

[Total: 60]

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