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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2009 question paper for the guidance of teachers

0620 CHEMISTRY

0620/06

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.

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	Pa	ge 2	Mark Scheme: Teachers' version	Syllabus	Paper		
			IGCSE – May/June 2009	0620	06		
1	(a)	(a) balance (1) stirring/(glass) rod/stirrer (1) not thermometer beaker (1)					
	(b)	.,	ess (1) not residue		[1]		
		` '	tion/decant (1) sieve/strain/centrifuge		[1]		
	(c)	heat/eva	porate (1) to crystallising point or description e.g. us	sing glass rod (1)	[2]		
2	(a)	to reach	room temperature/be at same temperature owtte (1)	[1]		
	(b)	insulator	/to minimise heat loss (1)		[1]		
	(c)	exothermic (1)					
	(d)	(i) 40 c	m ³ volume of acid (1)		[1]		
		(ii) two	straight lines, missing error point (1) extended to int	tersect (1)	[2]		
		(iii) 22.5	+/- 0.5 (1) or read from graph cm ³ (1)		[2]		
3	(a)	add dilut	e acid (1) fizz, no fizz (1) or correct chloride test		[2]		
	(b)	(b) litmus paper/named indicator (1) turns blue (1) bleached (1)					
	(c)		nydroxide/ammonia (solution) (1) green (precipitate) recipitate) (1)	(1)	[3]		
4	(a)	Table of					
		final tem	perature boxes correctly completed (2) 24 31	3 40 51 60 1 38 47 54 2 39 49 57	[5]		
	(b)	-	correctly plotted (3), –1 for any incorrect ine graph (1)		[4]		
	(c)	(i) expe	eriment 5 (1)		[1]		
		` '	e energy owtte (1) particles move faster (1) more kil e collisions (1)	netic energy = 2	[3]		

Page		ge 3	Mark Scheme: Teachers' version	Syllabus	Paper			
			IGCSE – May/June 2009	0620	06			
	(d)	(d) idea of a fair test/to compare effect of changing the temperature (1)						
	(e)	(e) (i) value from graph approx 20 (1) unit (1) extrapolation shown (1)						
		(ii) curv		[1]				
	(f)							
		explanat /average	ce heat losses	[2]				
5	test	tests on solid S						
	(c)	(i) blue	e precipitate (1)		[1]			
		(ii) blue	e (1) precipitate (1)		[2]			
		diss	solves/clears (1) deep/royal blue (1)		[2]			
		(iii) whit	te (1) precipitate (1)		[2]			
	(f)	(i) V is	s more reactive or converse (1)		[1]			
		(ii) oxy	gen (1)		[1]			
	(g)	(g) catalyst/transition metal/manganese oxide any two points (2)V is a better catalyst = 2						
6	(a)	add wate crush/m filter/dec		[3]				
	(b)	add indicadd indiconclusi	ur) (1) not base	[3]				