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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2010 question paper for the guidance of teachers

0620 CHEMISTRY

0620/62

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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	- J -	IGCSE -	- October/November 2010	0620	62
(a)) flask (1)	pipette (1) buret	te (1)		[3]
(b)	(b) named indicator (1) colour change (1)not incorrect colour change				[2]
					[Total: 5]
ex no no	camples giv	ct test means zei	nly possible correct responses to for result e.g. test for KC <i>l</i> , add l, unnamed indicator turns blue		
aq	queous pot	assium chloride	(nitric acid) silver nitrate / lead n white precipitate (1)	itrate (1)	
eth	hanol		lighted splint (1) flame produced (1) allow dichromate / manganate a not b.p.	and correct colour o	change
SO	odium hydro	oxide solution	named indicator (1) correct colour change or pH (1) allow named metal salt solution	and correct ppt. co	olour
					[Total: 6
(a)) all points straight		/ (2), –1 each incorrect		[3
(b)		rbon dioxide give rogen gas given			[1
(c)	(c) prevent loss of acid / liqu		id		[1
(d)	i) (i) Exp	eriment 1			[1
	(ii) (in E	Experiment 2) the	e temperature of the acid was low	er / converse	[1
(e)) 18.5 min	utes ±1/2 small	square (1) extrapolation on grid (1)	[2
(f)	sketched	d line to the left o	f Experiment 1 line		[1
					[Total: 10

Mark Scheme: Teachers' version

Syllabus

Paper

Page 2

Page 3		Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – October/November 2010	0620	62
(a)		mperature boxes correctly completed 23 (1) sperature boxes completed (2) -1 each incorrect 19 17		[3]
(b)		mperature boxes correctly completed 22 (1) apperature boxes correctly completed (1), -1 each incompleted (2), -1 each incompleted (3), -1	orrect	[2]
(c)		lotted correctly (3), -1 for each incorrect straight line graphs (2)		[6]
(d)	` '	ue from graph 34 °C (1) wn clearly on graph (1)		[2]
	(ii) valu	ue from graph 18 °C (1) shown clearly (1)		[2]
(e)	endother	rmic		[1]
(f)	temperat more wa	ture changes would be smaller / half owtte (1) ater (1)		[2]
(g)	smaller s	uld dissolve slower / react slower or take longer to re surface area (1) onverse e.g. dissolves faster or reaches final tempera urface area	•	ature (1) [2]
				[Total: 20]
(a)	yellow (1	1) precipitate (1)		[2]
(b)	pungent pH pape	cence / fizz / bubbles (1) smell (1) er blue / purple / >7 (1) white ppt.		[3]
(d)	carbon d	dioxide		[1]
(e)	zinc (1)	carbonate (1)		[2]
				[Total: 8]

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Page 4	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2010	0620	62
(a) electrop	lating		[1
(b) (i) chro	omium (1)		
(ii) any	named chromium salt (1)		[2
` '	corrosion owtte (1) attractive owtte (1)		[2
			[Total: 5
specified nur	mber / mass of nails (1)		

specified number / mass of nails (1) add x cm³ sample of water (1) in a test-tube / beaker (1) leave until nails rust and note time (1) not unrealistic time, must be at least one day repeat with other water samples (1) same volume water / number of nails (1) compare / describe results (1)

[max 6]

[Total: 6]