

NOVEMBER 2002

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK : 40

SYLLABUS/COMPONENT : 0620/5

**CHEMISTRY
(PRACTICAL)**



Page 1	Mark Scheme	Syllabus	Paper
	IGCSE Examinations – November 2002	0620	5

Question Number	Question (including any Source Details)	Part Mark																								
	Results obtained for Q1. <table><thead><tr><th>Experiment</th><th>Metal</th><th>Temp / °C. initial</th><th>max</th></tr></thead><tbody><tr><td>1</td><td>zinc</td><td>19</td><td>22</td></tr><tr><td>2</td><td>iron</td><td>19</td><td>~~20~~ 21</td></tr><tr><td>3</td><td>magnesium</td><td>19</td><td>82</td></tr><tr><td>4</td><td>copper</td><td>19</td><td>19</td></tr></tbody></table> Experiment 5. <table><tbody><tr><td>Initial temp (at start)</td><td>21°C</td></tr><tr><td>Max temp reached</td><td>40°C</td></tr></tbody></table>	Experiment	Metal	Temp / °C. initial	max	1	zinc	19	22	2	iron	19	~~20~~ 21	3	magnesium	19	82	4	copper	19	19	Initial temp (at start)	21°C	Max temp reached	40°C	
Experiment	Metal	Temp / °C. initial	max																							
1	zinc	19	22																							
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Initial temp (at start)	21°C																									
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Page 2	Mark Scheme	Syllabus	Paper
	IGCSE Examinations – November 2002	0620	5

Question Number	Mark Scheme Details	Part Mark
1.	Table of results. of supervisor's results. All initial temperatures recorded (2) All maximum temperatures recorded (2) Observations zinc few bubbles / slow reaction (1) iron few bubbles / slow reaction (1) magnesium violent / rapid (1) reaction, bubbles (1) / heat (1) mark 3 copper no reaction (1) (a) (i) magnesium (1) (ii) largest temperature rise (1) most violent reaction (1) (iii) hydrogen (1)	10 1 2 1

Page 3	Mark Scheme	Syllabus	Paper
	IGCSE Examinations – November 2002	0620	5

Question Number	Mark Scheme Details	Part Mark
1	Experiment 5 Table of results. of supervisors Initial temperature recorded (1) Maximum temperature recorded of supervisors (1) observations. solution becomes paler (1), red / brown / dark / lighter blue black. deposit / solid (1), fizz / bubbles (1) (b) temperature rises / goes up (1) (c) displacement / redox (1) (d) copper least iron zinc magnesium most (1)	2 3 1 1 1
	total - total	22

Page 4	Mark Scheme	Syllabus	Paper
	IGCSE Examinations – November 2002	0620	5

Question Number	Mark Scheme Details	Part Mark
2(a)	(i) <u>F</u> colourless (1) <u>not</u> clear / transparent description of smell (1)	2
	(ii) <u>G</u> colourless ~~if~~ no smell (1) <u>not</u>	1
(b)	(i) iodine dissolves (1) ^{pink / violet} purple (1) solution	2
	(ii) iodine dissolves (1) ^{yellow / orange / brown} reddish (1) solution	2
	Mixtures combined give two layers (1) or similar	1
(c)	(i) catches fire / ignites (1) yellow / blue flame (1)	2
	(ii) extinguishes splint (1) ~~does not burn~~	1
(d)	yellow (1) precipitate (1)	2
(e)	yellow (1) precipitate (1)	2
(f)	organic (1), hydrous (1), alkane (1) max 2	2
(g)	iodide / I^- (1)	1
Sub total		18
Total for paper		40